Product Catalog

Trane Advantage™ VRF Mini Outdoor Unit



December 2013

VRF-PRC007-EN

Table of Contents

For Trane Advantage VRF indoor units, refer to VRF-PRC006-EN

For larger capacity Trane Advantage VRF outdoor units, refer to VRF-PRC008-EN

VRF Mini Outdoor Unit

Nomenclature

4	T	V	H	0	0	4	8	B	1	0	0	N	B
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Digit 1 — Refrigerant

4 = R-410a

Digit 2 — Brand Name

T = Trane

Digit 3 — System Type

V = Variable Refrigerant Flow

Digit 4 — Functional Type Outdoor Unit (also see separate tab)

H = Heat Pump, DC Inverter (VRF)
R = Heat Recovery (3-pipe), DC Inverter (VRF)

Digit 5 — Special Application

0 = Standard

Digit 6, 7, 8 — Nominal Capacity (Btu/h x 1,000)

036 = 36,000 Btu/h
048 = 48,000 Btu/h
053 = 60,000 Btu/h
072 = 72,000 Btu/h
096 = 96,000 Btu/h
120 = 120,000 Btu/h
144 = 144,000 Btu/h
168 = 168,000 Btu/h
192 = 192,000 Btu/h

Digit 9 — Major Development Sequence

B = Second Development Sequence

Digit 10 — Electric Power Supply Characteristics

1 = 208~230/60/1
3 = 208~230/60/3
4 = 460/60/3

Digit 11 — Reserved for Future Use

0 = Not currently used

Digit 12 — Reserved for Future Use

0 = Not currently used

Digit 13 — Region of Sale

N = North America (UL or ETL)

Digit 14 — Minor Design Sequence

B = Second Design Sequence

Product Features

- Single phase power is suitable for residential and light commercial applications
- Heat pump design delivers either cooling or heating to the connected zones
- Space saving footprint - 13" depth allows installation in almost any location
- Inverter rotary compressor has been rigorously tested for high reliability and performance
- All major components can be accessed through the front of the unit, simplifying maintenance
- Up to 9 indoor units can be connected, with a wide variety of capacities and configurations available to meet most architectural design requirements
- Individual zone control meets the comfort requirements of each occupant
- Compatible with the same building controls as the larger capacity Trane Advantage VRF systems

Indoor Units

Nomenclature

4	T	V	D	0	0	1	8	B	1	0	0	N	B
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Digit 1 — Refrigerant

4 = R-410a

Digit 2 — Brand Name

T = Trane

Digit 3 — System Type

V = Variable Refrigerant Flow

Digit 4 — Configuration Type

A = High Pressure Static Duct Type
B = Mini 4-Way Cassette
C = 4-Way Cassette
D = Mid Pressure Static Duct Type
E = 1-Way Cassette
L = Slim Duct Type (Low Pressure)
X = Convertible Floor/Ceiling
W = High Wall Type

Digit 5 — Reserved for Future Use

0 = Not currently used

Digit 6, 7, 8 — Nominal Capacity (Btu/h x 1,000)

007= 7,000 Btu/h
009= 9,000 Btu/h
012= 12,000 Btu/h
015= 15,000 Btu/h
018= 18,000 Btu/h
024= 24,000 Btu/h
030= 30,000 Btu/h
036= 36,000 Btu/h
048= 48,000 Btu/h
076= 76,000 Btu/h
096= 96,000 Btu/h

Digit 9 — Major Development Sequence

B = Second Development Sequence

Digit 10 — Electric Power Supply Characteristics

1 = 208~230/60/1

Digit 11 — Reserved for Future Use

0 = Not currently used

Digit 12 — Reserved for Future Use

0 = Not currently used

Digit 13 — Region of Sale

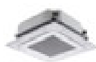
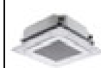
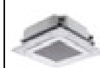
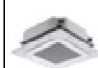
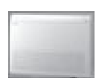
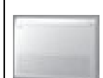
N = North America (UL or ETL)

Digit 14 — Minor Design Sequence

B = Second Design Sequence

Products

Application Matrix

Capacity / Type	7.5MBH	9.0MBH	9.5MBH	12MBH	18MBH	20MBH	24MBH	30MBH	36MBH	48MBH	76.8MBH	96MBH
Slim 1 way cassette												
4 way cassette												
Mini 4 way cassette (interior)												
Slim duct												
MSP duct												
HSP duct												
Ceiling												
High Wall												

Controls

Family	Description	Trane Model Number
Integrated System Management	VRF System Controller	TVCTRLTIMD00A0
	VRF Enterprise Management Software	TVCTRLTSTP3P00
	VRF Power Meter Interface Module	TVCTRLTIMB16A0
Building Management System Gateways	VRF System Controller+BACnet	TVCTRLTIMB17A0
	VRF System Controller+LONTalk	TVCTRLTIMB18A0
Centralized Control Systems	VRF Central On/Off Controller	TVCTRLTCMA202D
	VRF System TouchScreen Control	TVCTRLTCMA300T
	VRF Mode Select Switch	TVCTRLTCMC2000
Zone Controllers	VRF Wireless Remote Control	TVCTRLTRDH00UT
	VRF Wired Remote Control	TVCTRLTWRWE10T
	VRF Duct Signal Receiver & Wire	TVCTRLTRKA10N0
Interface Modules	VRF External Contact Interface Module	TVCTRLTIMB14A0
Sensors	VRF Ext. Room Temp Sensor	TVCTRLTRWTA000
	VRF Motion Sensor Mini 4Way	MOTIONSEN4TVB
Commissioning and Utility Kits	VRF Auto-Commissioning Tool	TVCTRLTIMC1000
	VRF Technician Utilities	TVCTRLTIMC0300

Accessories

Family	Description	Trane Model Number
Y- joint	VRF Y-joint <51MBh	4YDK1509B0051A
	VRF Y-joint 51-138MBh	4YDK2512B0138A
	VRF Y-joint 138-160MBh	4YDK2812B0160A
	VRF Y-joint 160-240MBh	4YDK2815B0240A
	VRF Y-joint 240-336MBh	4YDK3419B0336A
	VRF Y-joint 336-468MBh	4YDK4119B0468A
	VRF Y-joint >468MBh	4YDK4422B0999A
Header Joint	VRF Header Joint 4Units <160MBh	4HJK2512B0159A
	VRF Header Joint 8Units ≤240MBh	4HJK3115B0241A
	VRF Header Joint 8Units >240MBh	4HJK3819B0998A
EEV Kits (For Wall-mounted & Ceiling indoor unit	VRF EEV 1x 7-15.5& 1x 17-31MBh	4EEVXDA24K132A
	VRF EEV Kit 2Unit 7-15.5MBh	4EEVXDA24K200A
	VRF EEV Kit 2Unit 17-31MBh	4EEVXDA32K200A
	VRF EEV 2x 7-15.5& 1x 17-31MBh	4EEVXDA24K232A
	VRF EEV Kit 3Unit 7-15.5MBh	4EEVXDA24K300A
	VRF EEV 1x 7-15.5& 2x 17-31MBh	4EEVXDA32K224A
	VRF EEV Kit 3Unit 17-31MBh	4EEVXDA32K300A
	VRF EEV Kit 1Unit 7-15.5MBh	4EEVEVA24SA000
	VRF EEV Kit 1Unit 17-31MBh	4EEVEVA32SA000
AHU Kit	VRF AHU Kit 24-30MBh	4EEVAKA40K1025
	VRF AHU Kit 48-60MBh	4EEVAKA40K1050
	VRF AHU Kit 72-90MBh	4EEVAKA64K1075
	VRF AHU Kit 96-112MBh	4EEVAKA64K1100
DRAIN PUMP	VRF Drain Pump Slim Duct	CONDPUMPXVLB01
	VRF Drain Pump MSP 18/24MBh	CONDPUMPXVMB01
	VRF Drain Pump MSP 30/36MBh	CONDPUMPXVMB02
	VRF Drain Pump MSP48/ HSP36-48MBh	CONDPUMPXVDB01
	VRF Drain Pump HSP 76.8/96MBh	CONDPUMPXVHB01
CASSETTE PANEL	VRF Cassette Panel Slim 1Way	TVEPANPC1NUSET
	VRF Cassette Panel Sliding 1Way	TVEPANPC1NUAET
	VRF Cassette Panel Mini 4Way	TVEPANPC4SUSET
	VRF Cassette Panel 4Way	TVEPANPC4NUSET

Mini Outdoor Units

Product Specifications

208~230V Heat Pump Single Modules

Model Name				4TVH0036B100NB		4TVH0048B100NB		4TVH0053B100NB	
Power Supply				208~230/60/1		208~230/60/1		208~230/60/1	
Performance	Nominal Tons			3.0		4.0		4.5	
	System Type			Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted
	Capacity (Rated)[1, 2]	Cooling	Btu/h	38,000	38,000	48,000	48,000	53,000	53,000
		High Temp Heating	Btu/h	42,000	42,000	54,000	54,000	61,000	61,000
		Low Temp Heating	Btu/h	26,600	26,000	35,000	33,000	38,000	38,000
	AHRI 210/240 Efficiency Ratings[2]	EER	-	11.2	11.2	10.2	10.2	9.5	10.3
		SEER	-	16.0	14.8	16.0	15.8	15.5	18.5
		HSPF	-	8.60	8.80	9.40	8.70	8.60	8.80
Power	MCA		A	23.0		29.0		34.0	
	MOP		A	40.0		50.0		55.0	
Compressor	Type (Qty.)		-	Twin BLDC Rotary (1)		Twin BLDC Rotary (1)		Twin BLDC Rotary (1)	
	Model Name		-	UG5T450FUEJXSG		UG5T450FUEJXSG		UG5T450FUEJXSG	
	Output		kW	4.12		4.12		4.12	
	Oil	Type	-	POE		POE		POE	
		Initial Charge	fl. oz.	57.4		57.4		57.4	
Fan	Type (Qty.)		-	Propeller/ BLDC (2)		Propeller/ BLDC (2)		Propeller/ BLDC (2)	
	Output (Each)		W	125		125		125	
	Airflow Rate		CFM	3,885		3,885		3,885	
Piping Connections	Liquid Pipe		Ø inch	3/8" Braze		3/8" Braze		3/8" Braze	
	Gas Pipe		Ø inch	5/8" Braze		5/8" Braze		3/4" Braze	
	Installation Limits	Max Length[3]	ft.	492 (574)		493 (574)		494 (574)	
		Max Height[4]	ft.	164 (131)		164 (131)		164 (131)	
Indoor Unit Connections	Number Of Connectable Indoor Units		-	6		8		9	
	Total Capacity		-	50 to 130% of total outdoor unit capacity					
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charge		lbs.	7.05		8.05		9.05	
Sound[5]	Sound Pressure		dB(A)	50.0		51.0		53.0	
External Dimensions	Net Weight		lbs.	220.5		220.5		227	
	Shipping Weight		lbs.	231.5		231.5		238	
	Net Dimensions (WxHxD)		inches	37 x 47.64 x 13		38 x 47.64 x 13		39 x 47.64 x 13	
	Shipping Dimensions (WxHxD)		inches	39.17 x 53.86 x 16.77		39.17 x 53.86 x 16.77		39.17 x 53.86 x 16.77	
Operating Temp Range	Cooling		°F	23 ~ 118		24 ~ 118		25 ~ 118	
	Heating		°F	-4 ~ 66		-4 ~ 66		-4 ~ 66	

1. Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference.
   - Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB
   - Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB
2. Rated per AHRI Unitary Small HP Standard 210/240.
3. Actual length (equivalent length in parenthesis)
4. If outdoor is installed above the indoor units, the allowable height difference to the furthest indoor unit is 164ft. If the outdoor unit is installed below the indoor units, the allowable height difference is 131 ft.
5. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation conditions.
6. Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.

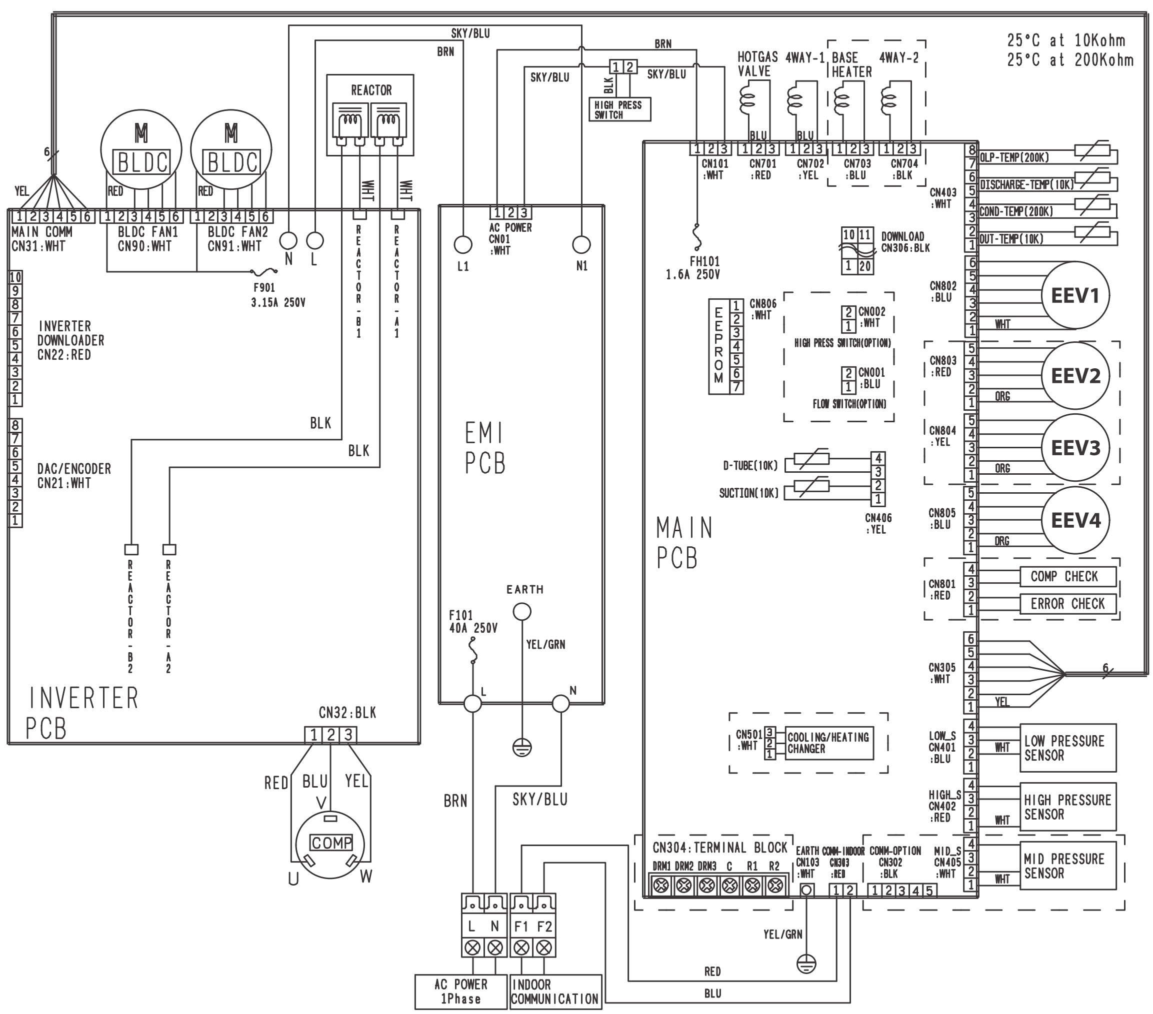
Operation Limit

Mode	Outdoor Temperature	Indoor Temperature	Indoor Humidity (RH)
Cooling	23°F ~ 118°F (DB)	57°F ~ 82°F (WB)	80% or less
Heating	-4°F ~ 66°F (WB)	81°F or less (DB)	

Electrical Wiring Diagram

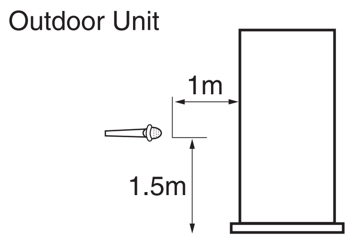
Heat Pump

4TVH0036B100NB, 4TVH0048B100NB, 4TVH0053B100NB



Sound Levels

Sound Pressure Level



Unit: dB(A)

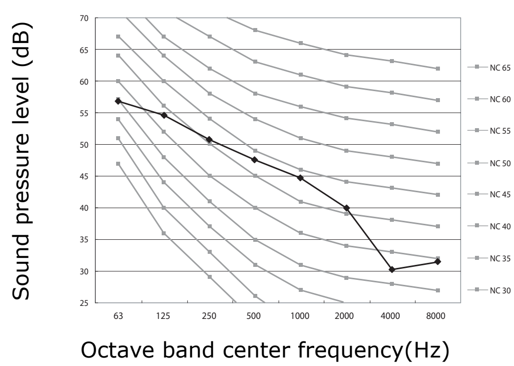
Model	Pressure
4TVH0036B100NB	50
4TVH0048B100NB	51
4TVH0053B100NB	53

Notes:

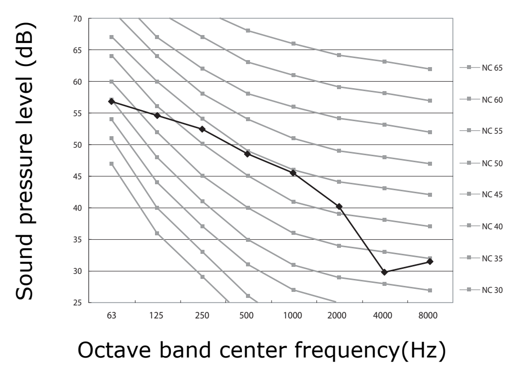
- *These operation sound value were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.*
- *Operation sound level may differ depending on operation and ambient conditions.*

NC Curves

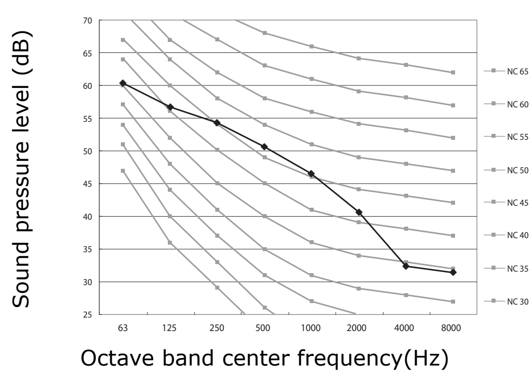
4TVH0036B100NB



4TVH0048B100NB



4TVH0053B100NB



Sound Power

Notes:

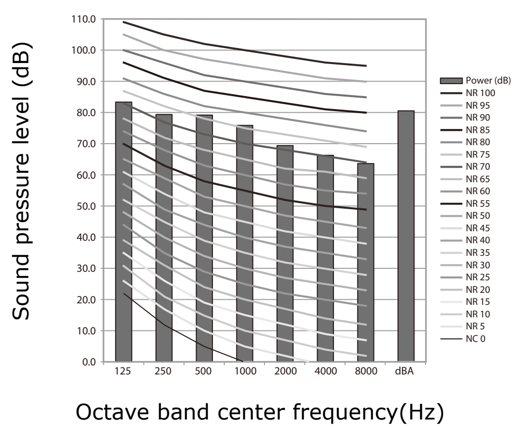
- *dBA = A-weighted sound power level.*
- *Reference power: 1pW*
- *Measured according to ISO 3741.*

Unit: dB(A)

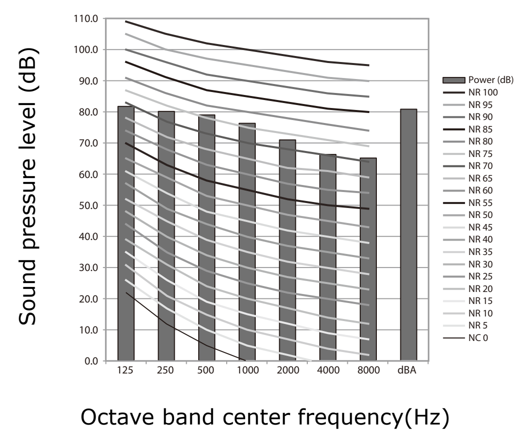
Model	Power
4TVH0036B100NB	66
4TVH0048B100NB	68
4TVH0053B100NB	69

NR Curves

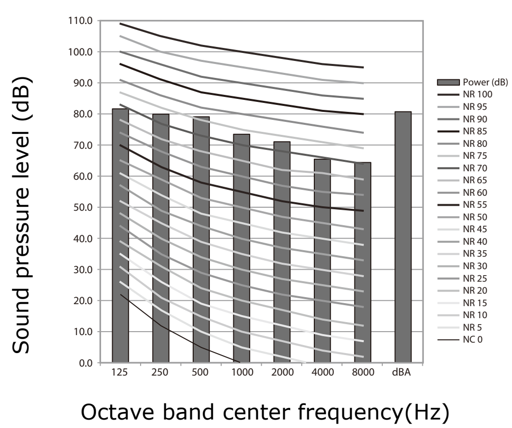
4TVH0036B100NB



4TVH0048B100NB

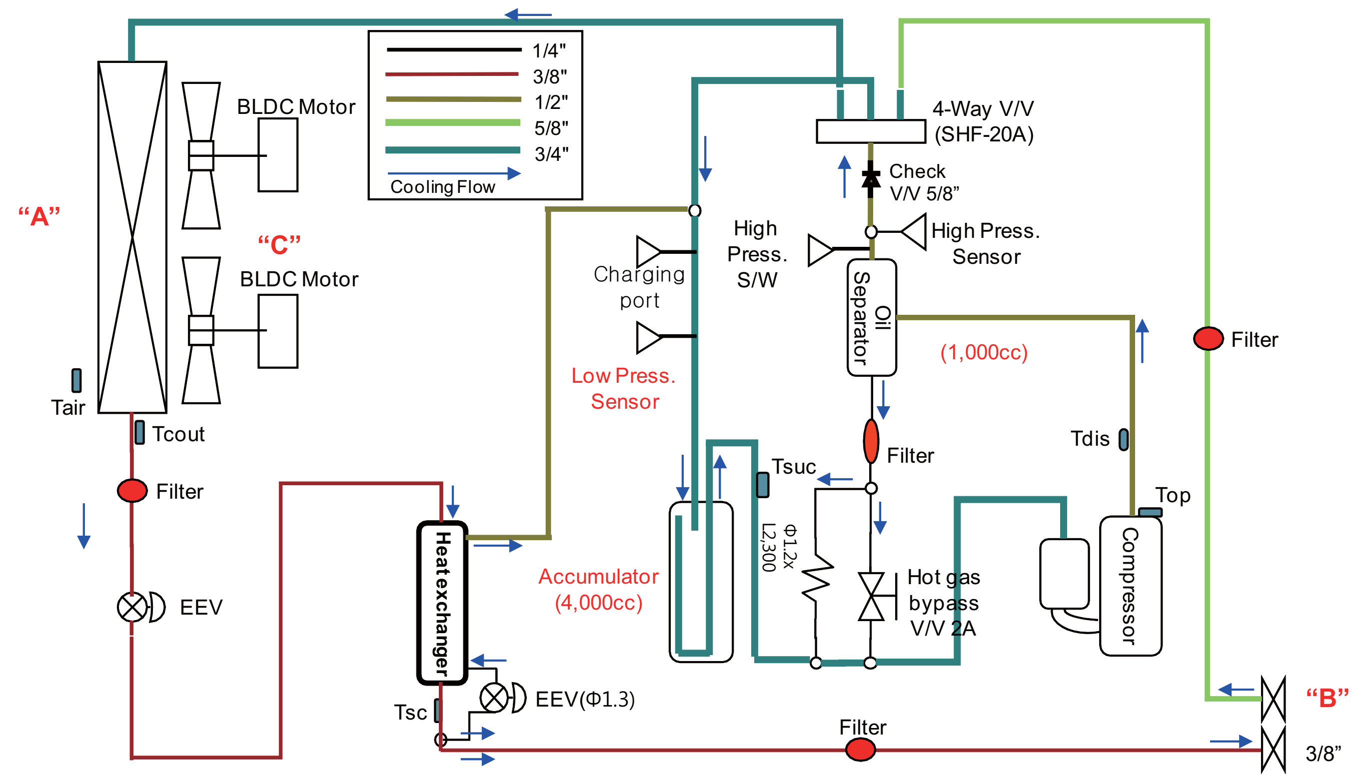


4TVH0053B100NB



Cycle Diagrams

4TVH0036B100NB, 4TVH0048B100NB, 4TVH0053B100NB



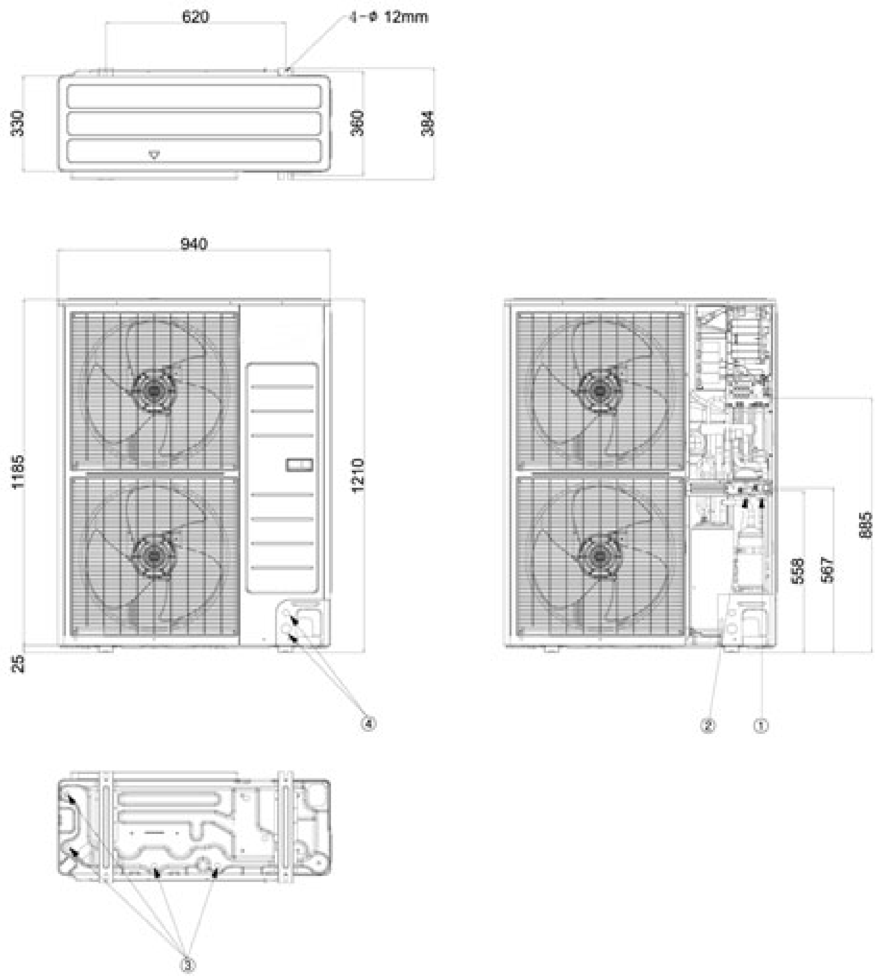
	Model	Gas Pipe Size
B	4TVH0036-0048B100NB	5/8"
	4TVH0053B100NB	3/4"

Dimensional Drawings

Heat Pump

4TVH0036B100NB, 4TVH0048B100NB, 4TVH0053B100NB

Unit: mm(inch)



No.	Name	Description	No.	Name	Description
1	Gas Ref. Pipe	-	5	Power Wiring Conduit	4(0.16") - Ø43.7(1.72")
2	Liquid Ref. Pipe	-	6	Communication Wiring Conduit	8(0.31") - Ø22.0(0.87")
3	Power Wiring Conduit	2(0.08") - Ø43.7(1.72")	7	Knock-out Hole for Ref. Piping	178 x 76(7" x 3")
4	Communication Wiring Conduit	2(0.08") - Ø34.5(1.36")	8	Anchor Bolt Hole	4(0.16") - Ø12(0.47")

Capacity Tables

4TVH0036B100NB

4TVH0036B100NB - Cooling

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	33.9	1.42	40.2	1.74	46.8	2.06	50.1	2.22	52.6	2.34	54.0	2.24	55.1	2.13
	54	33.8	1.44	40.2	1.76	46.8	2.11	50.1	2.27	52.0	2.33	53.1	2.22	54.5	2.18
	57	33.8	1.47	40.1	1.80	46.7	2.14	50.1	2.31	51.1	2.31	52.5	2.29	53.6	2.31
	61	33.8	1.50	40.1	1.84	46.7	2.18	50.0	2.38	50.5	2.39	51.7	2.41	53.0	2.43
	64	33.8	1.52	40.1	1.87	46.7	2.33	49.1	2.50	49.7	2.51	51.0	2.54	52.1	2.55
	68	33.7	1.56	40.0	2.00	46.6	2.50	48.5	2.63	49.1	2.64	50.2	2.65	51.5	2.69
	70	33.7	1.60	40.0	2.06	46.6	2.59	47.9	2.69	48.7	2.70	49.8	2.72	51.2	2.75
	73	33.7	1.71	40.0	2.21	46.5	2.78	47.3	2.81	47.9	2.82	49.2	2.85	50.4	2.87
	77	33.6	1.84	39.9	2.37	45.9	2.91	46.7	2.93	47.3	2.95	48.4	2.97	49.8	3.00
130	81	33.6	1.96	39.9	2.54	45.3	3.04	45.9	3.05	46.4	3.07	47.8	3.10	48.9	3.13
	84	33.5	2.09	39.8	2.70	44.5	3.16	45.3	3.18	45.8	3.20	46.9	3.23	48.3	3.25
	88	33.5	2.22	39.8	2.90	43.9	3.29	44.4	3.30	45.0	3.32	46.3	3.34	47.4	3.39
	91	33.5	2.38	39.7	3.09	43.0	3.41	43.8	3.43	44.4	3.45	45.5	3.48	46.8	3.51
	95	33.4	2.53	39.6	3.29	42.3	3.54	42.9	3.55	43.4	3.57	44.8	3.61	45.9	3.65
	99	32.4	2.70	38.4	3.51	40.3	3.66	41.1	3.68	41.6	3.70	42.6	3.74	44.0	3.77
	102	31.7	2.86	37.6	3.74	39.0	3.79	39.5	3.80	40.0	3.82	41.3	3.87	42.3	3.90
	108	31.7	3.04	37.6	3.98	38.4	3.92	38.7	3.93	39.2	3.95	40.7	3.99	41.5	4.04
	111	31.7	3.21	37.6	4.20	37.9	4.04	37.9	4.04	38.4	4.09	40.2	4.13	40.7	4.16
	115	31.7	3.39	37.6	4.44	37.4	4.18	37.1	4.17	37.6	4.21	39.7	4.25	40.0	4.29
	50	31.1	1.30	37.2	1.58	43.3	1.88	46.3	2.03	49.3	2.18	53.2	2.31	54.3	2.22
	54	31.1	1.31	37.2	1.61	43.2	1.91	46.3	2.06	49.3	2.22	52.3	2.30	53.4	2.20
	57	31.1	1.34	37.1	1.64	43.2	1.95	46.2	2.11	49.2	2.27	51.7	2.28	52.8	2.30
	61	31.1	1.36	37.1	1.67	43.1	1.99	46.1	2.16	49.2	2.33	50.8	2.40	51.9	2.42
	64	31.0	1.40	37.1	1.71	43.1	2.06	46.1	2.27	49.1	2.50	50.2	2.52	51.3	2.54
	68	31.0	1.42	37.0	1.77	43.0	2.21	46.1	2.45	48.3	2.62	49.3	2.65	50.4	2.66
	70	30.9	1.43	37.0	1.84	43.0	2.29	46.0	2.54	47.9	2.69	49.0	2.70	50.1	2.73
	73	30.9	1.53	36.9	1.96	43.0	2.45	46.0	2.72	47.1	2.81	48.4	2.83	49.5	2.86
	77	30.9	1.63	36.9	2.11	42.9	2.64	45.9	2.91	46.5	2.93	47.6	2.95	48.6	2.98
120	81	30.9	1.75	36.9	2.26	42.9	2.81	45.1	3.04	45.6	3.05	47.0	3.07	48.1	3.10
	84	30.8	1.86	36.8	2.41	42.8	3.01	44.5	3.16	45.0	3.18	46.1	3.20	47.2	3.23
	88	30.8	1.99	36.8	2.56	42.8	3.22	43.6	3.29	44.1	3.29	45.5	3.33	46.6	3.35
	91	30.8	2.11	36.8	2.74	42.5	3.39	43.0	3.40	43.6	3.42	44.7	3.45	45.7	3.49
	95	30.7	2.26	36.6	2.91	41.5	3.51	42.1	3.53	42.9	3.55	44.0	3.58	45.1	3.61
	99	29.7	2.40	35.6	3.11	39.8	3.64	40.3	3.66	40.8	3.67	41.9	3.71	42.9	3.74
	102	29.2	2.55	34.8	3.31	38.2	3.77	39.0	3.78	39.5	3.80	40.5	3.84	41.5	3.88
	108	29.2	2.70	34.8	3.51	37.4	3.89	38.4	3.90	39.0	3.93	40.0	3.97	41.0	4.00
	111	29.2	2.86	34.8	3.71	36.6	4.03	37.9	4.03	38.4	4.06	39.5	4.09	40.5	4.14
	115	29.2	3.00	34.8	3.92	35.9	4.15	37.4	4.14	37.9	4.19	39.0	4.23	40.0	4.26
	50	28.7	1.17	34.2	1.43	39.7	1.70	42.4	1.84	45.2	1.97	50.7	2.26	53.2	2.30
	54	28.6	1.20	34.1	1.46	39.6	1.73	42.4	1.87	45.1	2.01	50.6	2.30	52.6	2.28
	57	28.6	1.21	34.1	1.48	39.6	1.76	42.3	1.91	45.1	2.06	50.6	2.34	51.7	2.28
	61	28.6	1.24	34.1	1.52	39.5	1.80	42.3	1.95	45.1	2.09	50.0	2.38	51.1	2.41
	64	28.5	1.26	34.0	1.54	39.5	1.84	42.3	2.00	45.0	2.20	49.4	2.50	50.2	2.53
	68	28.5	1.29	34.0	1.58	39.5	1.95	42.2	2.15	44.9	2.36	48.5	2.63	49.6	2.65
	70	28.5	1.31	34.0	1.62	39.4	2.00	42.2	2.22	44.9	2.45	48.2	2.69	49.3	2.70
	73	28.4	1.36	33.9	1.74	39.4	2.16	42.1	2.38	44.9	2.63	47.3	2.81	48.4	2.83
	77	28.4	1.46	33.9	1.86	39.4	2.31	42.1	2.55	44.8	2.81	46.7	2.93	47.8	2.96
110	81	28.4	1.55	33.8	1.98	39.3	2.47	42.0	2.74	44.8	3.01	45.9	3.06	47.0	3.08
	84	28.4	1.66	33.8	2.11	39.3	2.65	42.0	2.92	44.2	3.15	45.3	3.18	46.4	3.20
	88	28.3	1.76	33.8	2.26	39.2	2.81	42.0	3.13	43.6	3.28	44.4	3.30	45.5	3.34
	91	28.3	1.87	33.8	2.41	39.2	3.01	41.9	3.34	42.8	3.39	43.8	3.43	44.9	3.45
	95	28.2	2.00	33.7	2.56	39.1	3.21	41.5	3.51	42.1	3.53	42.9	3.55	44.0	3.59
	99	27.4	2.11	32.7	2.73	37.9	3.42	39.5	3.64	40.0	3.65	41.1	3.68	42.1	3.71
	102	26.8	2.26	32.0	2.91	37.1	3.65	38.2	3.76	38.7	3.77	39.7	3.81	40.5	3.84
	108	26.8	2.39	32.0	3.09	37.1	3.87	37.6	3.88	38.2	3.89	39.2	3.94	39.7	3.96
	111	26.8	2.53	32.0	3.27	37.1	4.09	37.1	4.00	37.6	4.02	38.7	4.07	39.0	4.09
	115	26.8	2.66	32.0	3.45	37.1	4.31	36.6	4.13	37.1	4.14	38.2	4.20	38.2	4.20

4TVH0036B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
100	50	26.0	1.06	31.1	1.28	36.1	1.52	38.6	1.64	41.0	1.77	46.0	2.02	51.2	2.27
	54	26.0	1.08	31.1	1.31	36.0	1.55	38.5	1.68	41.0	1.80	46.0	2.06	51.2	2.32
	57	26.0	1.10	31.1	1.33	36.0	1.58	38.5	1.71	41.0	1.84	45.9	2.10	50.9	2.35
	61	25.9	1.11	31.1	1.36	36.0	1.61	38.5	1.74	40.9	1.87	45.9	2.14	50.0	2.38
	64	25.9	1.14	31.0	1.38	35.9	1.64	38.4	1.78	40.9	1.91	45.8	2.26	49.4	2.50
	68	25.9	1.16	31.0	1.42	35.9	1.69	38.4	1.86	40.9	2.05	45.8	2.43	48.5	2.63
	70	25.9	1.17	30.9	1.42	35.9	1.75	38.4	1.93	40.8	2.11	45.7	2.52	48.2	2.70
	73	25.9	1.20	30.9	1.52	35.8	1.88	38.3	2.06	40.8	2.27	45.7	2.70	47.6	2.81
	77	25.8	1.28	30.9	1.63	35.8	2.00	38.3	2.22	40.7	2.43	45.7	2.90	46.7	2.94
	81	25.8	1.36	30.9	1.74	35.8	2.15	38.2	2.37	40.7	2.60	45.1	3.04	46.1	3.06
	84	25.8	1.46	30.8	1.85	35.7	2.29	38.2	2.54	40.6	2.78	44.5	3.16	45.3	3.18
	88	25.8	1.55	30.8	1.97	35.7	2.45	38.2	2.70	40.6	2.97	43.6	3.29	44.7	3.30
	91	25.7	1.65	30.8	2.10	35.7	2.60	38.1	2.88	40.6	3.18	43.0	3.40	43.8	3.44
	95	25.7	1.75	30.7	2.23	35.6	2.78	38.0	3.10	40.4	3.39	42.1	3.53	43.2	3.55
	99	24.9	1.86	29.7	2.38	34.5	2.96	36.9	3.28	39.2	3.61	40.3	3.66	41.1	3.69
	102	24.4	1.97	29.2	2.53	33.8	3.15	36.1	3.50	37.9	3.75	38.7	3.78	39.7	3.81
	108	24.4	2.09	29.2	2.68	33.8	3.34	36.1	3.71	37.4	3.89	37.9	3.90	39.2	3.93
	111	24.4	2.21	29.2	2.83	33.8	3.55	36.1	3.93	36.9	4.04	37.1	4.03	38.7	4.05
	115	24.4	2.32	29.2	2.98	33.8	3.74	36.1	4.14	36.4	4.19	36.4	4.14	38.2	4.18
90	50	23.4	0.95	27.8	1.15	32.5	1.36	34.7	1.46	36.9	1.57	41.6	1.79	46.0	2.01
	54	23.4	0.97	27.8	1.16	32.5	1.37	34.7	1.48	36.9	1.60	41.6	1.82	46.0	2.06
	57	23.4	0.98	27.8	1.19	32.4	1.41	34.6	1.52	36.8	1.63	41.5	1.86	45.9	2.10
	61	23.3	1.00	27.7	1.21	32.4	1.42	34.6	1.54	36.8	1.66	41.5	1.90	45.9	2.13
	64	23.3	1.02	27.7	1.23	32.4	1.46	34.6	1.57	36.8	1.69	41.4	1.93	45.8	2.26
	68	23.3	1.04	27.7	1.26	32.4	1.48	34.6	1.61	36.7	1.76	41.4	2.07	45.8	2.43
	70	23.3	1.04	27.7	1.26	32.3	1.52	34.5	1.66	36.7	1.81	41.4	2.16	45.7	2.51
	73	23.3	1.07	27.6	1.31	32.3	1.61	34.5	1.78	36.7	1.95	41.3	2.31	45.7	2.70
	77	23.2	1.12	27.6	1.41	32.2	1.73	34.4	1.90	36.6	2.08	41.3	2.47	45.7	2.90
	81	23.2	1.20	27.6	1.50	32.2	1.84	34.4	2.03	36.6	2.22	41.2	2.65	45.1	3.04
	84	23.2	1.26	27.6	1.60	32.2	1.96	34.4	2.16	36.6	2.38	41.2	2.82	44.5	3.16
	88	23.2	1.36	27.5	1.71	32.2	2.10	34.3	2.31	36.5	2.54	41.1	3.02	43.6	3.29
	91	23.2	1.43	27.5	1.81	32.1	2.24	34.3	2.46	36.5	2.70	41.1	3.22	43.0	3.40
	95	23.1	1.52	27.4	1.93	32.0	2.38	34.2	2.63	36.4	2.89	41.0	3.44	42.1	3.53
	99	22.4	1.61	26.6	2.06	31.1	2.54	33.2	2.81	35.3	3.07	39.5	3.63	40.3	3.66
	102	21.9	1.71	26.1	2.17	30.4	2.70	32.5	2.98	34.6	3.28	37.9	3.75	38.7	3.78
	108	21.9	1.81	26.1	2.30	30.4	2.86	32.5	3.16	34.6	3.48	37.1	3.88	37.9	3.90
	111	21.9	1.91	26.1	2.42	30.4	3.03	32.5	3.34	34.6	3.68	36.4	3.99	37.1	4.03
	115	21.9	2.01	26.1	2.54	30.4	3.20	32.5	3.52	34.6	3.88	35.6	4.12	36.4	4.14
80	50	20.8	0.84	24.9	1.01	28.9	1.18	30.9	1.27	32.8	1.36	36.9	1.56	40.8	1.76
	54	20.8	0.86	24.8	1.02	28.9	1.20	30.8	1.30	32.8	1.40	36.9	1.59	40.7	1.79
	57	20.8	0.87	24.8	1.04	28.9	1.23	30.8	1.32	32.7	1.42	36.8	1.62	40.7	1.83
	61	20.8	0.88	24.8	1.07	28.9	1.26	30.8	1.35	32.7	1.45	36.8	1.66	40.7	1.86
	64	20.7	0.90	24.8	1.08	28.8	1.27	30.7	1.37	32.7	1.47	36.8	1.68	40.6	1.90
	68	20.7	0.92	24.7	1.10	28.8	1.30	30.7	1.41	32.6	1.51	36.7	1.75	40.6	2.03
	70	20.7	0.92	24.7	1.11	28.7	1.31	30.7	1.42	32.6	1.53	36.7	1.81	40.5	2.11
	73	20.7	0.94	24.7	1.13	28.7	1.37	30.6	1.51	32.6	1.64	36.7	1.94	40.5	2.26
	77	20.7	0.97	24.6	1.21	28.7	1.47	30.6	1.61	32.5	1.76	36.6	2.07	40.4	2.42
	81	20.7	1.03	24.6	1.29	28.7	1.57	30.6	1.72	32.5	1.88	36.6	2.22	40.4	2.59
	84	20.6	1.10	24.6	1.36	28.6	1.67	30.6	1.84	32.5	2.00	36.6	2.37	40.4	2.76
	88	20.6	1.16	24.6	1.46	28.6	1.78	30.5	1.95	32.4	2.14	36.5	2.53	40.3	2.95
	91	20.6	1.24	24.6	1.55	28.6	1.90	30.5	2.08	32.4	2.27	36.5	2.70	40.3	3.15
	95	20.5	1.31	24.5	1.64	28.5	2.01	30.4	2.22	32.3	2.43	36.4	2.87	40.2	3.36
	99	19.9	1.39	23.8	1.74	27.7	2.15	29.5	2.36	31.3	2.58	35.3	3.06	39.0	3.59
	102	19.5	1.47	23.3	1.85	27.1	2.27	28.9	2.50	30.7	2.75	34.6	3.26	37.9	3.75
	108	19.5	1.56	23.3	1.96	27.1	2.41	28.9	2.65	30.7	2.92	34.6	3.46	37.6	3.92
	111	19.5	1.65	23.3	2.06	27.1	2.54	28.9	2.81	30.7	3.10	34.6	3.66	37.4	4.09
	115	19.5	1.74	23.3	2.17	27.1	2.66	28.9	2.96	30.7	3.27	34.6	3.87	37.1	4.25

4TVH0036B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	18.2	0.74	21.7	0.88	25.2	1.02	27.0	1.10	28.7	1.18	32.2	1.34	35.8	1.51
	54	18.2	0.75	21.7	0.89	25.2	1.04	27.0	1.12	28.6	1.20	32.2	1.36	35.8	1.53
	57	18.2	0.77	21.7	0.91	25.2	1.06	27.0	1.15	28.6	1.22	32.2	1.39	35.7	1.56
	61	18.2	0.78	21.7	0.92	25.2	1.08	26.9	1.16	28.6	1.25	32.1	1.42	35.7	1.60
	64	18.1	0.78	21.7	0.94	25.1	1.10	26.9	1.18	28.5	1.26	32.1	1.45	35.7	1.63
	68	18.1	0.80	21.6	0.96	25.1	1.12	26.9	1.21	28.5	1.30	32.1	1.47	35.6	1.67
	70	18.1	0.81	21.6	0.97	25.1	1.13	26.8	1.21	28.5	1.31	32.1	1.50	35.6	1.74
	73	18.1	0.82	21.6	0.99	25.1	1.15	26.8	1.26	28.4	1.36	32.0	1.61	35.6	1.86
	77	18.1	0.83	21.6	1.02	25.0	1.23	26.8	1.35	28.4	1.47	32.0	1.71	35.5	1.99
70	81	18.1	0.88	21.6	1.09	25.0	1.31	26.8	1.43	28.4	1.56	31.9	1.83	35.5	2.12
	84	18.0	0.94	21.5	1.16	25.0	1.40	26.7	1.52	28.4	1.66	31.9	1.95	35.5	2.27
	88	18.0	0.99	21.5	1.23	25.0	1.49	26.7	1.63	28.3	1.77	31.9	2.08	35.4	2.42
	91	18.0	1.06	21.5	1.31	24.9	1.58	26.7	1.73	28.3	1.89	31.9	2.22	35.4	2.58
	95	17.9	1.11	21.4	1.38	24.9	1.68	26.6	1.84	28.2	2.00	31.8	2.36	35.3	2.75
	99	17.4	1.18	20.8	1.47	24.1	1.79	25.8	1.95	27.4	2.13	30.8	2.51	34.2	2.92
	102	17.0	1.26	20.4	1.56	23.6	1.90	25.3	2.07	26.8	2.27	30.2	2.67	33.5	3.12
	108	17.0	1.32	20.4	1.64	23.6	2.00	25.3	2.20	26.8	2.41	30.2	2.83	33.5	3.31
	111	17.0	1.40	20.4	1.73	23.6	2.11	25.3	2.32	26.8	2.54	30.2	2.99	33.5	3.50
	115	17.0	1.47	20.4	1.81	23.6	2.22	25.3	2.44	26.8	2.68	30.2	3.15	33.5	3.70
	50	15.6	0.64	18.6	0.76	21.6	0.87	23.2	0.94	24.6	1.00	27.6	1.13	30.6	1.26
	54	15.6	0.66	18.6	0.77	21.6	0.88	23.1	0.95	24.6	1.02	27.5	1.15	30.6	1.29
	57	15.6	0.67	18.6	0.78	21.6	0.91	23.1	0.97	24.6	1.04	27.5	1.17	30.5	1.31
	61	15.6	0.67	18.6	0.79	21.6	0.92	23.1	0.99	24.6	1.05	27.5	1.20	30.5	1.34
	64	15.6	0.68	18.5	0.81	21.6	0.94	23.0	1.00	24.6	1.07	27.4	1.21	30.5	1.36
	68	15.6	0.69	18.5	0.82	21.5	0.95	23.0	1.02	24.5	1.10	27.4	1.24	30.4	1.39
	70	15.5	0.70	18.5	0.83	21.5	0.96	23.0	1.03	24.5	1.10	27.4	1.26	30.4	1.41
	73	15.5	0.72	18.5	0.84	21.5	0.98	23.0	1.05	24.5	1.12	27.4	1.31	30.4	1.50
	77	15.5	0.72	18.5	0.86	21.4	1.02	23.0	1.10	24.5	1.20	27.3	1.39	30.3	1.60
60	81	15.5	0.75	18.5	0.91	21.4	1.08	22.9	1.17	24.4	1.27	27.3	1.48	30.3	1.71
	84	15.5	0.79	18.4	0.97	21.4	1.15	22.9	1.26	24.4	1.36	27.3	1.58	30.3	1.81
	88	15.4	0.84	18.4	1.02	21.4	1.22	22.9	1.33	24.4	1.44	27.3	1.68	30.2	1.94
	91	15.4	0.88	18.4	1.08	21.4	1.30	22.9	1.42	24.4	1.53	27.2	1.79	30.2	2.06
	95	15.4	0.94	18.3	1.15	21.3	1.37	22.8	1.50	24.3	1.63	27.1	1.90	30.1	2.20
	99	14.9	0.99	17.8	1.21	20.7	1.47	22.1	1.59	23.6	1.73	26.3	2.02	29.2	2.33
	102	14.6	1.05	17.4	1.28	20.2	1.55	21.7	1.68	23.1	1.84	25.8	2.15	28.6	2.49
	108	14.6	1.11	17.4	1.35	20.2	1.63	21.7	1.78	23.1	1.95	25.8	2.27	28.6	2.64
	111	14.6	1.16	17.4	1.42	20.2	1.72	21.7	1.87	23.1	2.06	25.8	2.39	28.6	2.79
	115	14.6	1.22	17.4	1.47	20.2	1.81	21.7	1.96	23.1	2.16	25.8	2.51	28.6	2.94
	50	13.0	0.56	15.5	0.64	18.0	0.73	19.3	0.78	20.5	0.83	23.1	0.94	25.6	1.04
	54	13.0	0.56	15.5	0.65	18.0	0.74	19.3	0.79	20.5	0.84	23.0	0.95	25.5	1.06
	57	13.0	0.57	15.5	0.67	18.0	0.76	19.2	0.81	20.5	0.86	23.0	0.97	25.5	1.07
	61	13.0	0.57	15.5	0.67	18.0	0.77	19.2	0.82	20.5	0.87	23.0	0.98	25.5	1.10
	64	12.9	0.58	15.4	0.67	17.9	0.78	19.2	0.83	20.5	0.88	23.0	1.00	25.5	1.11
	68	12.9	0.59	15.4	0.69	17.9	0.79	19.2	0.85	20.4	0.90	22.9	1.02	25.4	1.14
	70	12.9	0.60	15.4	0.70	17.9	0.80	19.2	0.86	20.4	0.91	22.9	1.03	25.4	1.15
	73	12.9	0.61	15.4	0.71	17.9	0.82	19.2	0.87	20.4	0.93	22.9	1.04	25.4	1.17
	77	12.9	0.61	15.4	0.72	17.9	0.83	19.1	0.88	20.4	0.96	22.9	1.10	25.4	1.26
50	81	12.9	0.62	15.4	0.74	17.9	0.87	19.1	0.94	20.4	1.02	22.9	1.16	25.4	1.33
	84	12.9	0.67	15.4	0.78	17.8	0.93	19.1	1.00	20.4	1.08	22.8	1.25	25.3	1.42
	88	12.9	0.70	15.3	0.83	17.8	0.99	19.1	1.07	20.3	1.15	22.8	1.32	25.3	1.52
	91	12.8	0.73	15.3	0.88	17.8	1.04	19.1	1.13	20.3	1.21	22.8	1.41	25.3	1.61
	95	12.8	0.78	15.3	0.94	17.8	1.10	19.0	1.20	20.2	1.29	22.7	1.49	25.2	1.71
	99	12.4	0.82	14.8	0.99	17.2	1.16	18.4	1.26	19.7	1.36	22.0	1.58	24.4	1.81
	102	12.2	0.87	14.5	1.04	16.9	1.24	18.1	1.34	19.2	1.45	21.6	1.68	23.9	1.92
	108	12.2	0.91	14.5	1.10	16.9	1.31	18.1	1.42	19.2	1.52	21.6	1.77	23.9	2.03
	111	12.2	0.95	14.5	1.16	16.9	1.38	18.1	1.48	19.2	1.61	21.6	1.86	23.9	2.14
	115	12.2	0.99	14.5	1.21	16.9	1.46	18.1	1.56	19.2	1.68	21.6	1.96	23.9	2.25

4TVH0036B100NB

4TVH0036B100NB - Heating

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
130	-4	-4.4	30.0	2.98	29.7	3.15	29.7	3.32	29.7	3.50	29.5	3.68
	1	0	32.7	3.24	32.4	3.40	32.4	3.57	32.2	3.73	32.2	3.89
	5	3	34.3	3.49	34.3	3.65	34.1	3.81	34.1	3.97	34.1	4.13
	10	9	36.2	3.64	36.0	3.80	36.0	3.94	36.0	4.10	35.7	4.24
	14	12	37.9	3.78	37.9	3.92	37.9	4.06	37.6	4.20	37.6	4.34
	19	18	41.1	3.82	40.8	3.96	40.8	4.08	40.6	4.21	40.6	4.33
	23	21	42.7	3.93	42.7	4.05	42.4	4.16	42.4	4.29	42.4	4.42
	27	25	44.3	3.82	44.3	3.94	44.3	4.05	44.1	4.15	44.1	4.27
	32	30	47.0	3.94	47.0	4.05	46.8	4.15	46.8	4.26	46.8	4.36
	37	36	49.7	4.05	49.5	4.14	49.5	4.24	49.5	4.35	48.9	4.40
	44	40	51.4	4.11	51.4	4.21	51.1	4.30	51.1	4.40	48.9	4.22
	47	43	53.0	4.13	53.0	4.22	53.0	4.31	52.7	4.38	48.9	4.01
	51	47	54.9	4.13	54.6	4.23	54.6	4.31	52.7	4.16	48.9	3.82
	54	50	56.5	4.19	56.2	4.28	56.2	4.35	52.7	4.01	48.9	3.68
	57	53	58.1	4.24	58.1	4.32	56.2	4.19	52.7	3.86	48.9	3.54
	60	56	60.0	4.29	59.7	4.36	56.2	4.04	52.7	3.72	48.9	3.42
120	-4	-4.4	29.7	3.20	29.7	3.37	29.7	3.53	29.5	3.70	29.5	3.86
	1	0	32.4	3.46	32.4	3.61	32.2	3.76	32.2	3.91	32.2	4.06
	5	3	34.3	3.71	34.1	3.85	34.1	3.99	34.1	4.14	33.8	4.29
	10	9	36.0	3.84	36.0	3.97	36.0	4.13	35.7	4.26	35.7	4.40
	14	12	37.9	3.97	37.6	4.10	37.6	4.23	37.6	4.36	37.3	4.50
	19	18	40.8	4.00	40.8	4.12	40.6	4.23	40.6	4.35	40.6	4.47
	23	21	42.7	4.09	42.4	4.20	42.4	4.31	42.4	4.43	42.2	4.54
	27	25	44.3	3.97	44.3	4.08	44.1	4.18	44.1	4.29	44.1	4.38
	32	30	47.0	4.08	46.8	4.18	46.8	4.28	46.8	4.37	45.2	4.27
	37	36	49.5	4.18	49.5	4.28	49.5	4.36	48.7	4.35	45.2	3.98
	44	40	51.4	4.24	51.1	4.33	51.1	4.42	48.7	4.17	45.2	3.82
	47	43	53.0	4.25	52.7	4.34	51.9	4.31	48.7	3.97	45.2	3.64
	51	47	54.6	4.26	54.6	4.34	51.9	4.10	48.7	3.78	45.2	3.47
	54	50	56.2	4.30	55.2	4.26	51.9	3.95	48.7	3.64	45.2	3.34
	57	53	58.1	4.35	55.2	4.10	51.9	3.80	48.7	3.50	45.2	3.22
	60	56	58.7	4.25	55.2	3.96	51.9	3.66	48.7	3.39	45.2	3.11
110	-4	-4.4	29.7	3.45	29.5	3.60	29.5	3.75	29.5	3.90	29.2	4.05
	1	0	32.4	3.68	32.2	3.81	32.2	3.96	32.2	4.10	31.9	4.24
	5	3	34.1	3.92	34.1	4.06	34.1	4.19	33.8	4.32	33.8	4.45
	10	9	36.0	4.05	35.7	4.17	35.7	4.29	35.7	4.43	35.7	4.56
	14	12	37.6	4.16	37.6	4.28	37.6	4.40	37.3	4.53	37.3	4.64
	19	18	40.8	4.16	40.6	4.28	40.6	4.39	40.6	4.49	40.3	4.61
	23	21	42.4	4.26	42.4	4.36	42.2	4.46	42.2	4.57	41.4	4.55
	27	25	44.1	4.13	44.1	4.21	44.1	4.31	43.8	4.41	41.4	4.13
	32	30	46.8	4.22	46.8	4.31	46.8	4.40	44.6	4.18	41.4	3.83
	37	36	49.5	4.31	49.2	4.40	47.6	4.24	44.6	3.92	41.4	3.59
	44	40	51.1	4.36	50.6	4.40	47.6	4.07	44.6	3.75	41.4	3.45
	47	43	52.7	4.37	50.6	4.18	47.6	3.87	44.6	3.57	41.4	3.28
	51	47	53.8	4.28	50.6	3.97	47.6	3.68	44.6	3.40	41.4	3.13
	54	50	53.8	4.12	50.6	3.82	47.6	3.55	44.6	3.28	41.4	3.01
	57	53	53.8	3.96	50.6	3.68	47.6	3.42	44.6	3.16	41.4	2.91
	60	56	53.8	3.82	50.6	3.56	47.6	3.30	44.6	3.06	41.4	2.82

4TVH0036B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
100	-4	-4.4	29.5	3.60	29.5	3.72	29.5	3.86	29.2	3.98	29.2	4.13
	1	0	32.2	3.80	32.2	3.92	31.9	4.04	31.9	4.15	31.9	4.29
	5	3	34.1	4.02	33.8	4.14	33.5	4.27	33.8	4.38	33.8	4.50
	10	9	35.7	4.13	35.7	4.25	35.3	4.36	35.4	4.47	35.4	4.59
	14	12	37.6	4.24	37.6	4.34	37.0	4.45	37.3	4.56	37.3	4.67
	19	18	40.6	4.23	40.6	4.32	39.5	4.42	40.3	4.51	37.6	4.15
	23	21	42.4	4.29	42.2	4.39	41.4	4.49	40.6	4.29	37.6	3.94
	27	25	44.1	4.16	44.1	4.24	42.0	4.23	40.6	3.90	37.6	3.57
	32	30	46.8	4.25	46.0	4.24	42.0	3.93	40.6	3.63	37.6	3.32
	37	36	48.9	4.27	46.0	3.97	42.0	3.67	40.6	3.39	37.6	3.12
	44	40	48.9	4.09	46.0	3.80	42.0	3.53	40.6	3.26	37.6	3.00
	47	43	48.9	3.88	46.0	3.62	42.0	3.40	40.6	3.10	37.6	2.85
	51	47	48.9	3.70	46.0	3.45	42.4	3.19	40.6	2.96	37.6	2.72
	54	50	48.9	3.57	46.0	3.32	42.4	3.09	40.6	2.85	37.6	2.64
	57	53	48.9	3.43	46.0	3.19	42.4	2.98	40.6	2.75	37.6	2.54
	60	56	48.9	3.32	46.0	3.10	42.4	2.87	40.6	2.67	37.6	2.46
90	-4	-4.4	29.5	3.93	29.2	4.05	29.2	4.17	29.2	4.29	29.2	4.42
	1	0	32.2	4.13	31.9	4.24	31.9	4.34	31.9	4.45	31.9	4.57
	5	3	33.8	4.35	33.8	4.45	33.8	4.57	33.5	4.68	33.5	4.78
	10	9	35.7	4.45	35.7	4.56	35.4	4.66	35.4	4.77	33.8	4.56
	14	12	37.3	4.55	37.3	4.64	37.3	4.74	36.5	4.68	33.8	4.29
	19	18	40.6	4.52	40.3	4.61	38.9	4.45	36.5	4.09	33.8	3.75
	23	21	42.2	4.59	41.4	4.55	38.9	4.20	36.5	3.88	33.8	3.56
	27	25	43.8	4.43	41.4	4.12	38.9	3.81	36.5	3.52	33.8	3.24
	32	30	44.1	4.11	41.4	3.82	38.9	3.55	36.5	3.28	33.8	3.01
	37	36	44.1	3.84	41.4	3.58	38.9	3.32	36.5	3.08	33.8	2.83
	44	40	44.1	3.69	41.4	3.44	38.9	3.19	36.5	2.97	33.8	2.72
	47	43	44.1	3.51	41.4	3.28	38.9	3.04	36.5	2.82	33.8	2.60
	51	47	44.1	3.34	41.4	3.12	38.9	2.90	36.5	2.69	33.8	2.49
	54	50	44.1	3.23	41.4	3.01	38.9	2.81	36.5	2.60	33.8	2.40
	57	53	44.1	3.11	41.4	2.90	38.9	2.70	36.5	2.51	33.8	2.33
	60	56	44.1	3.00	41.4	2.81	38.9	2.62	36.5	2.43	33.8	2.25
80	-4	-4.4	29.2	4.17	29.2	4.28	29.2	4.38	29.2	4.49	28.9	4.61
	1	0	31.9	4.33	31.9	4.44	31.9	4.54	31.6	4.63	30.3	4.38
	5	3	33.8	4.57	33.5	4.66	33.5	4.76	32.4	4.60	30.3	4.21
	10	9	35.4	4.65	35.4	4.75	34.6	4.67	32.4	4.30	30.3	3.95
	14	12	37.3	4.74	36.8	4.75	34.6	4.39	32.4	4.06	30.3	3.72
	19	18	38.9	4.45	36.8	4.14	34.6	3.84	32.4	3.54	30.3	3.27
	23	21	38.9	4.22	36.8	3.94	34.6	3.64	32.4	3.37	30.3	3.10
	27	25	38.9	3.82	36.8	3.57	34.6	3.32	32.4	3.06	30.3	2.83
	32	30	38.9	3.56	36.8	3.32	34.6	3.09	32.4	2.85	30.3	2.64
	37	36	38.9	3.34	36.8	3.11	34.6	2.90	32.4	2.69	30.3	2.49
	44	40	38.9	3.21	36.8	3.00	34.6	2.79	32.4	2.58	30.3	2.39
	47	43	38.9	3.05	36.8	2.85	34.6	2.67	32.4	2.47	30.3	2.29
	51	47	38.9	2.91	36.8	2.72	34.6	2.54	32.4	2.35	30.3	2.19
	54	50	38.9	2.82	36.8	2.64	34.6	2.46	32.4	2.28	30.3	2.12
	57	53	38.9	2.71	36.8	2.54	34.6	2.36	32.4	2.20	30.3	2.04
	60	56	38.9	2.63	36.8	2.46	34.6	2.30	32.4	2.14	30.3	1.98

4TVH0036B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
70	-4	-4.4	29.2	4.40	29.2	4.50	28.9	4.60	28.4	4.53	26.4	4.15
	1	0	31.9	4.56	31.6	4.64	30.3	4.40	28.4	4.06	26.4	3.72
	5	3	33.5	4.78	32.2	4.57	30.3	4.23	28.4	3.90	26.4	3.59
	10	9	34.1	4.61	32.2	4.28	30.3	3.97	28.4	3.66	26.4	3.37
	14	12	34.1	4.32	32.2	4.03	30.3	3.74	28.4	3.45	26.4	3.18
	19	18	34.1	3.79	32.2	3.53	30.3	3.28	28.4	3.03	26.4	2.80
	23	21	34.1	3.59	32.2	3.35	30.3	3.12	28.4	2.89	26.4	2.67
	27	25	34.1	3.26	32.2	3.05	30.3	2.83	28.4	2.63	26.4	2.43
	32	30	34.1	3.04	32.2	2.84	30.3	2.66	28.4	2.46	26.4	2.28
	37	36	34.1	2.85	32.2	2.67	30.3	2.50	28.4	2.32	26.4	2.14
	44	40	34.1	2.75	32.2	2.57	30.3	2.40	28.4	2.23	26.4	2.07
	47	43	34.1	2.62	32.2	2.45	30.3	2.30	28.4	2.14	26.4	1.98
	51	47	34.1	2.51	32.2	2.35	30.3	2.19	28.4	2.04	26.4	1.89
	54	50	34.1	2.42	32.2	2.27	30.3	2.13	28.4	1.98	26.4	1.84
	57	53	34.1	2.35	32.2	2.19	30.3	2.05	28.4	1.92	26.4	1.78
	60	56	34.1	2.26	32.2	2.13	30.3	1.99	28.4	1.86	26.4	1.72
60	-4	-4.4	28.9	4.64	27.6	4.39	26.0	4.07	24.3	3.75	22.6	3.45
	1	0	29.2	4.23	27.6	3.94	26.0	3.64	24.3	3.37	22.6	3.10
	5	3	29.2	4.06	27.6	3.79	26.0	3.51	24.3	3.25	22.6	3.00
	10	9	29.2	3.81	27.6	3.56	26.0	3.31	24.3	3.07	22.6	2.83
	14	12	29.2	3.60	27.6	3.35	26.0	3.13	24.3	2.89	22.6	2.67
	19	18	29.2	3.16	27.6	2.95	26.0	2.75	24.3	2.55	22.6	2.36
	23	21	29.2	3.00	27.6	2.81	26.0	2.62	24.3	2.44	22.6	2.25
	27	25	29.2	2.73	27.6	2.55	26.0	2.39	24.3	2.22	22.6	2.05
	32	30	29.2	2.55	27.6	2.39	26.0	2.24	24.3	2.08	22.6	1.93
	37	36	29.2	2.41	27.6	2.26	26.0	2.11	24.3	1.97	22.6	1.83
	44	40	29.2	2.32	27.6	2.18	26.0	2.03	24.3	1.89	22.6	1.76
	47	43	29.2	2.20	27.6	2.08	26.0	1.95	24.3	1.82	22.6	1.70
	51	47	29.2	2.12	27.6	1.99	26.0	1.86	24.3	1.73	22.6	1.62
	54	50	29.2	2.04	27.6	1.93	26.0	1.81	24.3	1.69	22.6	1.57
	57	53	29.2	1.98	27.6	1.86	26.0	1.74	24.3	1.63	22.6	1.52
	60	56	29.2	1.93	27.6	1.81	26.0	1.70	24.3	1.59	22.6	1.49
50	-4	-4.4	24.4	3.78	23.0	3.52	21.6	3.27	20.2	3.03	18.8	2.80
	1	0	24.4	3.39	23.0	3.16	21.6	2.96	20.2	2.74	18.8	2.53
	5	3	24.4	3.27	23.0	3.05	21.6	2.84	20.2	2.65	18.8	2.45
	10	9	24.4	3.08	23.0	2.88	21.6	2.69	20.2	2.50	18.8	2.32
	14	12	24.4	2.91	23.0	2.73	21.6	2.54	20.2	2.36	18.8	2.19
	19	18	24.4	2.56	23.0	2.41	21.6	2.25	20.2	2.09	18.8	1.94
	23	21	24.4	2.45	23.0	2.30	21.6	2.15	20.2	2.00	18.8	1.86
	27	25	24.4	2.23	23.0	2.10	21.6	1.96	20.2	1.84	18.8	1.70
	32	30	24.4	2.09	23.0	1.97	21.6	1.85	20.2	1.72	18.8	1.60
	37	36	24.4	1.98	23.0	1.86	21.6	1.74	20.2	1.63	18.8	1.53
	44	40	24.4	1.90	23.0	1.80	21.6	1.69	20.2	1.58	18.8	1.47
	47	43	24.4	1.83	23.0	1.72	21.6	1.61	20.2	1.51	18.8	1.41
	51	47	24.4	1.74	23.0	1.65	21.6	1.54	20.2	1.45	18.8	1.36
	54	50	24.4	1.70	23.0	1.60	21.6	1.51	20.2	1.41	18.8	1.32
	57	53	24.4	1.64	23.0	1.54	21.6	1.46	20.2	1.37	18.8	1.28
	60	56	24.4	1.60	23.0	1.51	21.6	1.41	20.2	1.33	18.8	1.24

4TVH0048B100NB

4TVH0048B100NB - Cooling

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
130	50	42.8	1.92	50.8	2.35	59.2	2.78	63.3	3.01	66.5	3.17	68.2	3.04	69.6	2.89
	54	42.8	1.95	50.7	2.39	59.1	2.85	63.3	3.07	65.7	3.15	67.1	3.01	68.8	2.96
	57	42.7	1.99	50.7	2.44	59.0	2.90	63.2	3.13	64.6	3.13	66.3	3.10	67.7	3.13
	61	42.7	2.03	50.7	2.49	59.0	2.96	63.2	3.23	63.8	3.24	65.2	3.26	67.0	3.30
	64	42.7	2.07	50.6	2.53	58.9	3.15	62.1	3.39	62.7	3.40	64.5	3.44	65.9	3.46
	68	42.6	2.11	50.6	2.70	58.9	3.39	61.3	3.56	62.0	3.57	63.4	3.60	65.1	3.64
	70	42.5	2.17	50.5	2.80	58.8	3.52	60.5	3.64	61.6	3.66	62.9	3.69	64.7	3.72
	73	42.5	2.32	50.5	2.99	58.8	3.77	59.8	3.80	60.5	3.82	62.2	3.86	63.6	3.89
	77	42.5	2.49	50.4	3.21	58.0	3.95	59.0	3.97	59.7	3.99	61.1	4.03	62.8	4.06
	81	42.4	2.66	50.4	3.44	57.3	4.12	57.9	4.13	58.6	4.15	60.4	4.20	61.7	4.23
	84	42.4	2.83	50.3	3.66	56.2	4.28	57.2	4.30	57.9	4.34	59.3	4.37	61.0	4.41
	88	42.3	3.01	50.3	3.93	55.4	4.45	56.1	4.47	56.8	4.50	58.5	4.53	59.9	4.59
	91	42.3	3.22	50.2	4.19	54.3	4.62	55.4	4.65	56.1	4.67	57.4	4.71	59.1	4.76
	95	42.2	3.42	50.1	4.46	53.5	4.79	54.2	4.80	54.9	4.84	56.6	4.88	57.9	4.94
	99	40.9	3.65	48.5	4.76	50.9	4.95	51.9	4.99	52.6	5.01	53.9	5.07	55.5	5.11
	102	40.1	3.88	47.6	5.07	49.2	5.14	49.9	5.15	50.5	5.18	52.1	5.24	53.4	5.28
	108	40.1	4.12	47.6	5.39	48.5	5.31	48.9	5.32	49.5	5.35	51.5	5.41	52.5	5.47
	111	40.1	4.35	47.6	5.70	47.9	5.48	47.9	5.48	48.5	5.54	50.8	5.59	51.5	5.64
	115	40.1	4.59	47.6	6.01	47.2	5.66	46.9	5.65	47.6	5.71	50.2	5.76	50.5	5.81
120	50	39.3	1.76	47.0	2.13	54.7	2.55	58.5	2.75	62.3	2.96	67.2	3.13	68.6	3.00
	54	39.3	1.78	46.9	2.18	54.6	2.59	58.4	2.80	62.2	3.01	66.1	3.12	67.4	2.98
	57	39.3	1.81	46.9	2.23	54.5	2.65	58.4	2.85	62.2	3.07	65.3	3.09	66.7	3.12
	61	39.2	1.85	46.8	2.26	54.5	2.69	58.3	2.92	62.1	3.15	64.2	3.25	65.6	3.28
	64	39.2	1.89	46.8	2.32	54.4	2.78	58.2	3.08	62.1	3.39	63.4	3.41	64.8	3.45
	68	39.1	1.92	46.8	2.40	54.4	2.99	58.2	3.32	61.0	3.55	62.3	3.58	63.7	3.61
	70	39.1	1.94	46.7	2.49	54.3	3.10	58.1	3.45	60.5	3.64	61.9	3.66	63.3	3.70
	73	39.1	2.08	46.7	2.66	54.3	3.32	58.0	3.69	59.5	3.80	61.2	3.83	62.5	3.87
	77	39.0	2.21	46.6	2.85	54.2	3.57	58.0	3.95	58.7	3.97	60.1	3.99	61.4	4.04
	81	39.0	2.37	46.6	3.06	54.1	3.81	56.9	4.12	57.6	4.13	59.3	4.17	60.7	4.20
	84	38.9	2.52	46.5	3.26	54.1	4.07	56.2	4.28	56.8	4.30	58.2	4.34	59.6	4.38
	88	38.9	2.69	46.5	3.47	54.0	4.36	55.1	4.45	55.7	4.46	57.5	4.51	58.9	4.54
	91	38.8	2.86	46.4	3.71	53.7	4.60	54.3	4.61	55.0	4.63	56.4	4.68	57.8	4.73
	95	38.7	3.06	46.3	3.95	52.5	4.76	53.1	4.78	54.2	4.80	55.5	4.85	56.9	4.90
	99	37.6	3.25	44.9	4.21	50.2	4.93	50.9	4.95	51.6	4.98	52.9	5.02	54.2	5.07
	102	36.8	3.46	44.0	4.49	48.2	5.10	49.2	5.12	49.9	5.15	51.2	5.20	52.5	5.25
	108	36.8	3.66	44.0	4.76	47.2	5.27	48.5	5.28	49.2	5.33	50.5	5.38	51.8	5.42
	111	36.8	3.87	44.0	5.03	46.3	5.46	47.9	5.46	48.5	5.50	49.9	5.55	51.2	5.60
	115	36.8	4.06	44.0	5.31	45.3	5.63	47.2	5.62	47.9	5.67	49.2	5.73	50.5	5.78
110	50	36.2	1.59	43.2	1.94	50.1	2.31	53.6	2.49	57.1	2.67	64.0	3.06	67.2	3.12
	54	36.2	1.62	43.1	1.97	50.1	2.34	53.6	2.53	57.0	2.73	64.0	3.12	66.4	3.09
	57	36.1	1.64	43.1	2.01	50.0	2.39	53.5	2.59	56.9	2.78	63.9	3.17	65.3	3.09
	61	36.1	1.68	43.0	2.05	50.0	2.44	53.4	2.64	56.9	2.83	63.2	3.23	64.5	3.26
	64	36.0	1.71	43.0	2.09	49.9	2.49	53.4	2.70	56.8	2.98	62.4	3.39	63.4	3.42
	68	36.0	1.75	42.9	2.13	49.9	2.64	53.3	2.91	56.8	3.20	61.3	3.56	62.7	3.60
	70	36.0	1.77	42.9	2.19	49.8	2.72	53.3	3.01	56.7	3.32	60.9	3.64	62.3	3.66
	73	35.9	1.85	42.9	2.35	49.8	2.92	53.2	3.23	56.7	3.56	59.8	3.80	61.2	3.83
	77	35.9	1.97	42.8	2.52	49.7	3.13	53.2	3.46	56.6	3.81	59.0	3.97	60.4	4.01
	81	35.9	2.10	42.8	2.68	49.7	3.34	53.1	3.71	56.6	4.07	57.9	4.14	59.3	4.18
	84	35.8	2.25	42.7	2.86	49.6	3.58	53.1	3.96	55.8	4.27	57.2	4.31	58.6	4.34
	88	35.8	2.39	42.7	3.06	49.6	3.81	53.0	4.23	55.1	4.44	56.1	4.47	57.5	4.52
	91	35.8	2.53	42.7	3.26	49.5	4.07	53.0	4.52	54.0	4.60	55.4	4.65	56.7	4.68
	95	35.7	2.70	42.5	3.47	49.4	4.35	52.5	4.76	53.1	4.78	54.2	4.82	55.5	4.86
	99	34.6	2.86	41.2	3.70	47.9	4.63	49.9	4.93	50.5	4.94	51.9	4.99	53.2	5.03
	102	33.9	3.06	40.4	3.94	46.9	4.94	48.2	5.09	48.9	5.11	50.2	5.16	51.2	5.20
	108	33.9	3.24	40.4	4.19	46.9	5.24	47.6	5.26	48.2	5.27	49.5	5.34	50.2	5.36
	111	33.9	3.42	40.4	4.43	46.9	5.55	46.9	5.42	47.6	5.44	48.9	5.51	49.2	5.54
	115	33.9	3.61	40.4	4.67	46.9	5.84	46.3	5.59	46.9	5.62	48.2	5.68	48.2	5.70

4TVH0048B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	32.9	1.44	39.3	1.73	45.6	2.05	48.7	2.23	51.8	2.40	58.1	2.74	64.7	3.08
	54	32.8	1.46	39.3	1.78	45.5	2.10	48.7	2.27	51.8	2.44	58.0	2.78	64.7	3.14
	57	32.8	1.48	39.3	1.80	45.5	2.13	48.6	2.32	51.7	2.49	58.0	2.84	64.3	3.18
	61	32.8	1.51	39.2	1.85	45.5	2.18	48.6	2.36	51.7	2.53	57.9	2.90	63.2	3.23
	64	32.7	1.54	39.2	1.87	45.4	2.23	48.5	2.41	51.6	2.59	57.9	3.06	62.4	3.39
	68	32.7	1.58	39.1	1.92	45.4	2.29	48.5	2.52	51.6	2.77	57.8	3.30	61.3	3.56
	70	32.7	1.59	39.1	1.93	45.3	2.37	48.4	2.61	51.5	2.86	57.8	3.41	60.9	3.65
	73	32.7	1.63	39.1	2.05	45.3	2.55	48.4	2.80	51.5	3.08	57.7	3.66	60.1	3.81
	77	32.6	1.73	39.0	2.20	45.2	2.72	48.3	3.00	51.4	3.30	57.7	3.93	59.0	3.98
100	81	32.6	1.85	39.0	2.35	45.2	2.91	48.3	3.21	51.4	3.53	56.9	4.12	58.3	4.14
	84	32.6	1.97	38.9	2.51	45.2	3.10	48.2	3.44	51.3	3.77	56.2	4.28	57.2	4.31
	88	32.5	2.10	38.9	2.67	45.1	3.32	48.2	3.66	51.3	4.03	55.1	4.45	56.5	4.47
	91	32.5	2.24	38.8	2.84	45.1	3.53	48.1	3.90	51.2	4.30	54.3	4.61	55.4	4.66
	95	32.4	2.37	38.7	3.02	44.9	3.77	48.0	4.20	51.1	4.59	53.1	4.78	54.5	4.82
	99	31.4	2.52	37.6	3.22	43.6	4.01	46.6	4.44	49.5	4.88	50.9	4.95	51.9	5.00
	102	30.8	2.67	36.8	3.42	42.7	4.27	45.6	4.74	47.9	5.08	48.9	5.12	50.2	5.16
	108	30.8	2.83	36.8	3.63	42.7	4.53	45.6	5.02	47.2	5.27	47.9	5.28	49.5	5.33
	111	30.8	2.99	36.8	3.83	42.7	4.80	45.6	5.32	46.6	5.48	46.9	5.46	48.9	5.49
	115	30.8	3.14	36.8	4.04	42.7	5.07	45.6	5.62	45.9	5.67	45.9	5.62	48.2	5.66
	50	29.6	1.29	35.1	1.55	41.1	1.84	43.9	1.97	46.6	2.12	52.6	2.42	58.1	2.73
	54	29.6	1.31	35.1	1.58	41.0	1.86	43.8	2.01	46.6	2.17	52.5	2.47	58.0	2.78
	57	29.5	1.32	35.1	1.61	41.0	1.91	43.7	2.05	46.5	2.20	52.5	2.52	58.0	2.84
	61	29.5	1.36	35.0	1.64	40.9	1.93	43.7	2.09	46.5	2.25	52.4	2.57	57.9	2.89
	64	29.5	1.38	35.0	1.67	40.9	1.97	43.7	2.12	46.5	2.29	52.4	2.61	57.9	3.06
	68	29.5	1.40	35.0	1.70	40.9	2.01	43.6	2.18	46.4	2.39	52.3	2.81	57.8	3.29
	70	29.4	1.42	34.9	1.71	40.8	2.05	43.6	2.25	46.4	2.45	52.3	2.92	57.8	3.40
	73	29.4	1.45	34.9	1.78	40.8	2.18	43.5	2.41	46.3	2.64	52.2	3.13	57.7	3.66
	77	29.3	1.52	34.9	1.91	40.7	2.34	43.5	2.58	46.3	2.82	52.1	3.34	57.7	3.93
90	81	29.3	1.62	34.8	2.03	40.7	2.50	43.5	2.75	46.2	3.01	52.1	3.58	56.9	4.12
	84	29.3	1.71	34.8	2.17	40.7	2.66	43.4	2.93	46.2	3.22	52.0	3.82	56.2	4.28
	88	29.2	1.84	34.8	2.32	40.6	2.84	43.4	3.13	46.1	3.44	52.0	4.09	55.1	4.45
	91	29.2	1.94	34.7	2.45	40.6	3.04	43.3	3.33	46.1	3.66	51.9	4.36	54.3	4.61
	95	29.1	2.05	34.6	2.61	40.5	3.23	43.2	3.56	45.9	3.91	51.8	4.66	53.1	4.78
	99	28.3	2.18	33.6	2.78	39.3	3.44	41.9	3.80	44.6	4.17	49.9	4.92	50.9	4.95
	102	27.7	2.32	32.9	2.94	38.4	3.66	41.0	4.04	43.6	4.44	47.9	5.08	48.9	5.12
	108	27.7	2.45	32.9	3.12	38.4	3.88	41.0	4.28	43.6	4.71	46.9	5.25	47.9	5.28
	111	27.7	2.59	32.9	3.28	38.4	4.11	41.0	4.53	43.6	4.99	45.9	5.41	46.9	5.46
	115	27.7	2.73	32.9	3.45	38.4	4.34	41.0	4.77	43.6	5.26	44.9	5.58	45.9	5.62
	50	26.3	1.14	31.4	1.37	36.5	1.60	39.0	1.72	41.4	1.85	46.6	2.11	51.5	2.39
	54	26.3	1.16	31.4	1.38	36.5	1.63	38.9	1.76	41.4	1.89	46.6	2.16	51.5	2.43
	57	26.3	1.18	31.3	1.42	36.5	1.67	38.9	1.79	41.3	1.92	46.5	2.19	51.4	2.48
	61	26.2	1.20	31.3	1.45	36.4	1.70	38.8	1.83	41.3	1.96	46.5	2.25	51.4	2.52
	64	26.2	1.22	31.3	1.46	36.4	1.72	38.8	1.86	41.2	2.00	46.5	2.28	51.3	2.58
	68	26.2	1.24	31.2	1.50	36.4	1.76	38.8	1.91	41.2	2.04	46.4	2.37	51.3	2.75
	70	26.2	1.24	31.2	1.51	36.3	1.78	38.7	1.92	41.2	2.08	46.4	2.45	51.2	2.85
	73	26.1	1.28	31.2	1.53	36.3	1.86	38.7	2.04	41.1	2.23	46.3	2.63	51.2	3.06
	77	26.1	1.31	31.1	1.64	36.2	1.99	38.7	2.18	41.1	2.39	46.3	2.81	51.1	3.28
80	81	26.1	1.39	31.1	1.75	36.2	2.12	38.6	2.33	41.0	2.55	46.2	3.00	51.1	3.50
	84	26.1	1.48	31.1	1.85	36.2	2.26	38.6	2.49	41.0	2.72	46.2	3.21	51.0	3.74
	88	26.0	1.58	31.1	1.97	36.1	2.41	38.5	2.65	41.0	2.90	46.1	3.42	50.9	3.99
	91	26.0	1.68	31.0	2.10	36.1	2.57	38.5	2.82	40.9	3.08	46.1	3.65	50.9	4.27
	95	25.9	1.78	30.9	2.23	36.0	2.73	38.4	3.00	40.8	3.29	45.9	3.89	50.7	4.55
	99	25.1	1.88	30.0	2.36	34.9	2.91	37.2	3.20	39.6	3.49	44.6	4.14	49.2	4.86
	102	24.6	2.00	29.4	2.51	34.2	3.08	36.5	3.39	38.8	3.73	43.6	4.42	47.9	5.08
	108	24.6	2.11	29.4	2.66	34.2	3.26	36.5	3.60	38.8	3.96	43.6	4.69	47.6	5.31
	111	24.6	2.24	29.4	2.80	34.2	3.44	36.5	3.80	38.8	4.20	43.6	4.96	47.2	5.54
	115	24.6	2.35	29.4	2.94	34.2	3.61	36.5	4.01	38.8	4.43	43.6	5.24	46.9	5.75

4TVH0048B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	23.0	1.00	27.5	1.19	31.9	1.38	34.1	1.50	36.2	1.60	40.7	1.81	45.3	2.04
	54	23.0	1.02	27.4	1.21	31.9	1.42	34.1	1.52	36.2	1.63	40.7	1.85	45.2	2.08
	57	23.0	1.04	27.4	1.23	31.8	1.44	34.0	1.55	36.1	1.65	40.6	1.88	45.2	2.11
	61	22.9	1.05	27.4	1.24	31.8	1.46	34.0	1.58	36.1	1.69	40.6	1.92	45.1	2.17
	64	22.9	1.06	27.4	1.28	31.7	1.50	34.0	1.60	36.0	1.71	40.6	1.96	45.1	2.20
	68	22.9	1.08	27.3	1.30	31.7	1.52	33.9	1.64	36.0	1.76	40.5	2.00	45.0	2.26
	70	22.9	1.10	27.3	1.31	31.7	1.53	33.9	1.64	36.0	1.78	40.5	2.03	45.0	2.35
	73	22.8	1.11	27.3	1.34	31.6	1.56	33.9	1.71	35.9	1.85	40.4	2.18	44.9	2.52
	77	22.8	1.13	27.3	1.38	31.6	1.67	33.8	1.83	35.9	1.99	40.4	2.32	44.9	2.69
70	81	22.8	1.20	27.2	1.47	31.6	1.78	33.8	1.94	35.9	2.11	40.4	2.48	44.8	2.88
	84	22.8	1.27	27.2	1.58	31.6	1.89	33.8	2.07	35.8	2.25	40.3	2.65	44.8	3.07
	88	22.8	1.35	27.2	1.67	31.5	2.02	33.7	2.20	35.8	2.40	40.3	2.82	44.7	3.28
	91	22.7	1.44	27.1	1.77	31.5	2.15	33.7	2.34	35.8	2.56	40.3	3.00	44.7	3.49
	95	22.7	1.51	27.1	1.87	31.4	2.27	33.6	2.49	35.7	2.72	40.1	3.20	44.6	3.72
	99	22.0	1.60	26.2	1.99	30.5	2.42	32.6	2.65	34.6	2.89	38.9	3.40	43.2	3.96
	102	21.5	1.70	25.7	2.11	29.8	2.57	31.9	2.81	33.9	3.07	38.1	3.62	42.3	4.22
	108	21.5	1.79	25.7	2.23	29.8	2.72	31.9	2.98	33.9	3.26	38.1	3.83	42.3	4.49
	111	21.5	1.89	25.7	2.34	29.8	2.85	31.9	3.14	33.9	3.45	38.1	4.05	42.3	4.75
	115	21.5	1.99	25.7	2.45	29.8	3.00	31.9	3.31	33.9	3.63	38.1	4.27	42.3	5.01
	50	19.7	0.87	23.5	1.03	27.3	1.18	29.2	1.27	31.1	1.36	34.8	1.53	38.6	1.71
	54	19.7	0.89	23.5	1.04	27.3	1.20	29.2	1.29	31.1	1.38	34.8	1.56	38.6	1.75
	57	19.7	0.90	23.5	1.05	27.3	1.23	29.2	1.31	31.1	1.40	34.7	1.59	38.5	1.78
	61	19.7	0.90	23.5	1.07	27.2	1.24	29.1	1.34	31.1	1.43	34.7	1.62	38.5	1.81
	64	19.6	0.92	23.4	1.10	27.2	1.27	29.1	1.36	31.0	1.45	34.7	1.64	38.5	1.85
	68	19.6	0.94	23.4	1.11	27.2	1.29	29.1	1.38	31.0	1.48	34.6	1.68	38.4	1.88
	70	19.6	0.95	23.4	1.12	27.2	1.30	29.1	1.39	31.0	1.50	34.6	1.70	38.4	1.91
	73	19.6	0.97	23.3	1.14	27.1	1.32	29.0	1.43	30.9	1.52	34.6	1.77	38.4	2.03
	77	19.6	0.97	23.3	1.16	27.1	1.38	29.0	1.50	30.9	1.62	34.5	1.88	38.3	2.17
60	81	19.5	1.02	23.3	1.23	27.1	1.46	29.0	1.59	30.9	1.72	34.5	2.01	38.3	2.32
	84	19.5	1.07	23.3	1.31	27.1	1.56	28.9	1.70	30.8	1.84	34.5	2.13	38.3	2.45
	88	19.5	1.14	23.3	1.38	27.0	1.65	28.9	1.80	30.8	1.95	34.4	2.27	38.2	2.63
	91	19.5	1.20	23.2	1.46	27.0	1.76	28.9	1.92	30.8	2.08	34.4	2.42	38.2	2.78
	95	19.4	1.27	23.2	1.55	26.9	1.86	28.8	2.03	30.7	2.20	34.3	2.58	38.1	2.98
	99	18.9	1.35	22.5	1.64	26.1	1.99	27.9	2.16	29.8	2.34	33.3	2.74	36.9	3.16
	102	18.5	1.43	22.0	1.73	25.6	2.10	27.4	2.28	29.1	2.49	32.6	2.91	36.2	3.37
	108	18.5	1.51	22.0	1.83	25.6	2.21	27.4	2.41	29.1	2.64	32.6	3.07	36.2	3.57
	111	18.5	1.58	22.0	1.92	25.6	2.33	27.4	2.53	29.1	2.78	32.6	3.24	36.2	3.78
	115	18.5	1.65	22.0	2.00	25.6	2.45	27.4	2.66	29.1	2.92	32.6	3.40	36.2	3.98
	50	16.4	0.75	19.6	0.87	22.8	0.99	24.4	1.05	26.0	1.12	29.1	1.27	32.3	1.40
	54	16.4	0.76	19.6	0.88	22.7	1.00	24.3	1.07	25.9	1.14	29.1	1.29	32.3	1.44
	57	16.4	0.78	19.5	0.90	22.7	1.03	24.3	1.10	25.9	1.16	29.1	1.31	32.2	1.45
	61	16.4	0.78	19.5	0.90	22.7	1.04	24.3	1.11	25.9	1.18	29.0	1.32	32.2	1.48
	64	16.4	0.79	19.5	0.91	22.7	1.05	24.3	1.13	25.9	1.20	29.0	1.36	32.2	1.51
	68	16.4	0.80	19.5	0.94	22.7	1.07	24.2	1.15	25.8	1.22	29.0	1.38	32.1	1.54
	70	16.3	0.81	19.5	0.95	22.6	1.08	24.2	1.16	25.8	1.23	29.0	1.39	32.1	1.55
	73	16.3	0.82	19.5	0.96	22.6	1.11	24.2	1.18	25.8	1.26	28.9	1.42	32.1	1.59
	77	16.3	0.83	19.4	0.97	22.6	1.12	24.2	1.20	25.7	1.30	28.9	1.50	32.0	1.70
50	81	16.3	0.84	19.4	1.00	22.6	1.18	24.1	1.28	25.7	1.38	28.9	1.58	32.0	1.80
	84	16.3	0.90	19.4	1.06	22.5	1.26	24.1	1.36	25.7	1.46	28.8	1.69	32.0	1.92
	88	16.3	0.95	19.4	1.13	22.5	1.34	24.1	1.45	25.7	1.55	28.8	1.79	32.0	2.05
	91	16.2	0.99	19.4	1.20	22.5	1.42	24.1	1.53	25.6	1.64	28.8	1.91	31.9	2.18
	95	16.2	1.05	19.3	1.27	22.4	1.50	24.0	1.62	25.6	1.75	28.7	2.02	31.8	2.32
	99	15.7	1.11	18.7	1.34	21.7	1.58	23.3	1.71	24.8	1.85	27.8	2.15	30.9	2.45
	102	15.4	1.18	18.3	1.42	21.3	1.68	22.8	1.81	24.3	1.96	27.3	2.27	30.2	2.60
	108	15.4	1.23	18.3	1.50	21.3	1.78	22.8	1.92	24.3	2.07	27.3	2.40	30.2	2.75
	111	15.4	1.29	18.3	1.58	21.3	1.87	22.8	2.01	24.3	2.18	27.3	2.52	30.2	2.90
	115	15.4	1.35	18.3	1.64	21.3	1.97	22.8	2.11	24.3	2.28	27.3	2.66	30.2	3.05

4TVH0048B100NB

4TVH0048B100NB - Heating

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
130	-4	-4.4	38.6	3.85	38.2	4.07	38.2	4.30	38.2	4.53	37.9	4.77
	1	0	42.1	4.19	41.7	4.40	41.7	4.62	41.4	4.83	41.4	5.03
	5	3	44.1	4.52	44.1	4.73	43.8	4.94	43.8	5.13	43.8	5.34
	10	9	46.6	4.72	46.2	4.91	46.2	5.09	46.2	5.30	45.9	5.48
	14	12	48.7	4.89	48.7	5.07	48.7	5.25	48.3	5.44	48.3	5.62
	19	18	52.9	4.95	52.5	5.12	52.5	5.28	52.1	5.45	52.1	5.61
	23	21	54.9	5.08	54.9	5.24	54.6	5.39	54.6	5.56	54.6	5.72
	27	25	57.0	4.95	57.0	5.09	57.0	5.24	56.7	5.38	56.7	5.52
	32	30	60.5	5.09	60.5	5.24	60.1	5.38	60.1	5.51	60.1	5.64
	37	36	64.0	5.24	63.6	5.36	63.6	5.48	63.6	5.63	62.9	5.69
	44	40	66.0	5.31	66.0	5.45	65.7	5.57	65.7	5.69	62.9	5.46
	47	43	68.1	5.34	68.1	5.46	68.1	5.58	67.8	5.67	62.9	5.19
	51	47	70.6	5.35	70.2	5.47	70.2	5.58	67.8	5.39	62.9	4.95
	54	50	72.7	5.42	72.3	5.53	72.3	5.63	67.8	5.19	62.9	4.77
	57	53	74.8	5.48	74.8	5.59	72.3	5.42	67.8	5.00	62.9	4.58
	60	56	77.2	5.55	76.8	5.64	72.3	5.23	67.8	4.81	62.9	4.42
120	-4	-4.4	38.2	4.14	38.2	4.36	38.2	4.57	37.9	4.79	37.9	5.00
	1	0	41.7	4.47	41.7	4.67	41.4	4.86	41.4	5.06	41.4	5.25
	5	3	44.1	4.80	43.8	4.99	43.8	5.17	43.8	5.36	43.5	5.56
	10	9	46.2	4.97	46.2	5.14	46.2	5.34	45.9	5.51	45.9	5.69
	14	12	48.7	5.13	48.3	5.30	48.3	5.47	48.3	5.64	48.0	5.83
	19	18	52.5	5.18	52.5	5.33	52.1	5.47	52.1	5.63	52.1	5.79
	23	21	54.9	5.29	54.6	5.44	54.6	5.58	54.6	5.73	54.2	5.87
	27	25	57.0	5.14	57.0	5.28	56.7	5.41	56.7	5.55	56.7	5.67
	32	30	60.5	5.28	60.1	5.41	60.1	5.53	60.1	5.66	58.1	5.52
	37	36	63.6	5.41	63.6	5.53	63.6	5.64	62.6	5.63	58.1	5.16
	44	40	66.0	5.48	65.7	5.61	65.7	5.72	62.6	5.40	58.1	4.95
	47	43	68.1	5.50	67.8	5.62	66.8	5.58	62.6	5.14	58.1	4.70
	51	47	70.2	5.51	70.2	5.62	66.8	5.30	62.6	4.89	58.1	4.49
	54	50	72.3	5.57	70.9	5.51	66.8	5.11	62.6	4.70	58.1	4.33
	57	53	74.8	5.63	70.9	5.30	66.8	4.91	62.6	4.53	58.1	4.17
	60	56	75.4	5.50	70.9	5.12	66.8	4.74	62.6	4.39	58.1	4.02
110	-4	-4.4	38.2	4.46	37.9	4.66	37.9	4.85	37.9	5.05	37.5	5.24
	1	0	41.7	4.77	41.4	4.94	41.4	5.12	41.4	5.30	41.0	5.48
	5	3	43.8	5.07	43.8	5.25	43.8	5.42	43.5	5.59	43.5	5.77
	10	9	46.2	5.24	45.9	5.40	45.9	5.56	45.9	5.73	45.9	5.90
	14	12	48.3	5.39	48.3	5.53	48.3	5.69	48.0	5.86	48.0	6.01
	19	18	52.5	5.39	52.1	5.53	52.1	5.68	52.1	5.81	51.8	5.96
	23	21	54.6	5.51	54.6	5.64	54.2	5.78	54.2	5.91	53.2	5.89
	27	25	56.7	5.34	56.7	5.45	56.7	5.58	56.3	5.70	53.2	5.34
	32	30	60.1	5.46	60.1	5.58	60.1	5.69	57.4	5.41	53.2	4.96
	37	36	63.6	5.58	63.3	5.69	61.2	5.48	57.4	5.07	53.2	4.64
	44	40	65.7	5.64	65.0	5.69	61.2	5.27	57.4	4.85	53.2	4.46
	47	43	67.8	5.66	65.0	5.41	61.2	5.01	57.4	4.62	53.2	4.24
	51	47	69.2	5.53	65.0	5.14	61.2	4.77	57.4	4.40	53.2	4.05
	54	50	69.2	5.33	65.0	4.95	61.2	4.60	57.4	4.24	53.2	3.90
	57	53	69.2	5.12	65.0	4.77	61.2	4.42	57.4	4.10	53.2	3.77
	60	56	69.2	4.95	65.0	4.61	61.2	4.27	57.4	3.96	53.2	3.64

4TVH0048B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
100	-4	-4.4	37.9	4.66	37.9	4.81	37.9	5.00	37.5	5.16	37.5	5.34
	1	0	41.4	4.91	41.4	5.07	41.0	5.23	41.0	5.38	41.0	5.55
	5	3	43.8	5.20	43.5	5.36	43.0	5.52	43.5	5.67	43.5	5.83
	10	9	45.9	5.35	45.9	5.50	45.4	5.64	45.5	5.79	45.5	5.94
	14	12	48.3	5.48	48.3	5.62	47.5	5.77	48.0	5.90	48.0	6.05
	19	18	52.1	5.47	52.1	5.59	50.8	5.72	51.8	5.84	48.3	5.38
	23	21	54.6	5.56	54.2	5.68	53.2	5.81	52.1	5.56	48.3	5.09
	27	25	56.7	5.39	56.7	5.48	54.0	5.47	52.1	5.05	48.3	4.62
	32	30	60.1	5.50	59.1	5.48	54.0	5.08	52.1	4.69	48.3	4.30
	37	36	62.9	5.52	59.1	5.13	54.0	4.75	52.1	4.39	48.3	4.03
	44	40	62.9	5.29	59.1	4.92	54.0	4.57	52.1	4.22	48.3	3.88
	47	43	62.9	5.02	59.1	4.68	54.0	4.40	52.1	4.01	48.3	3.69
	51	47	62.9	4.79	59.1	4.46	54.5	4.13	52.1	3.83	48.3	3.52
	54	50	62.9	4.62	59.1	4.30	54.5	4.00	52.1	3.69	48.3	3.41
	57	53	62.9	4.44	59.1	4.13	54.5	3.85	52.1	3.56	48.3	3.29
	60	56	62.9	4.29	59.1	4.01	54.5	3.72	52.1	3.45	48.3	3.18
90	-4	-4.4	37.9	5.08	37.5	5.24	37.5	5.40	37.5	5.56	37.5	5.72
	1	0	41.4	5.34	41.0	5.48	41.0	5.62	41.0	5.77	41.0	5.91
	5	3	43.5	5.63	43.5	5.77	43.5	5.91	43.1	6.06	43.1	6.19
	10	9	45.9	5.75	45.9	5.90	45.5	6.03	45.5	6.17	43.5	5.90
	14	12	48.0	5.89	48.0	6.01	48.0	6.13	46.9	6.06	43.5	5.55
	19	18	52.1	5.85	51.8	5.96	50.1	5.75	46.9	5.29	43.5	4.85
	23	21	54.2	5.94	53.2	5.89	50.1	5.44	46.9	5.02	43.5	4.61
	27	25	56.3	5.73	53.2	5.33	50.1	4.94	46.9	4.56	43.5	4.19
	32	30	56.7	5.31	53.2	4.95	50.1	4.60	46.9	4.24	43.5	3.90
	37	36	56.7	4.97	53.2	4.63	50.1	4.30	46.9	3.99	43.5	3.67
	44	40	56.7	4.78	53.2	4.45	50.1	4.13	46.9	3.84	43.5	3.52
	47	43	56.7	4.55	53.2	4.24	50.1	3.94	46.9	3.64	43.5	3.36
	51	47	56.7	4.33	53.2	4.03	50.1	3.75	46.9	3.49	43.5	3.22
	54	50	56.7	4.18	53.2	3.90	50.1	3.63	46.9	3.36	43.5	3.11
	57	53	56.7	4.02	53.2	3.75	50.1	3.50	46.9	3.25	43.5	3.01
	60	56	56.7	3.89	53.2	3.63	50.1	3.39	46.9	3.14	43.5	2.91
80	-4	-4.4	37.5	5.40	37.5	5.53	37.5	5.67	37.5	5.81	37.2	5.96
	1	0	41.0	5.61	41.0	5.74	41.0	5.87	40.7	6.00	38.9	5.67
	5	3	43.5	5.91	43.1	6.03	43.1	6.16	41.7	5.95	38.9	5.45
	10	9	45.5	6.02	45.5	6.14	44.5	6.05	41.7	5.57	38.9	5.11
	14	12	48.0	6.13	47.3	6.14	44.5	5.68	41.7	5.25	38.9	4.81
	19	18	50.1	5.77	47.3	5.36	44.5	4.97	41.7	4.58	38.9	4.23
	23	21	50.1	5.46	47.3	5.09	44.5	4.72	41.7	4.36	38.9	4.01
	27	25	50.1	4.95	47.3	4.62	44.5	4.29	41.7	3.96	38.9	3.66
	32	30	50.1	4.61	47.3	4.30	44.5	4.00	41.7	3.69	38.9	3.41
	37	36	50.1	4.33	47.3	4.02	44.5	3.75	41.7	3.49	38.9	3.22
	44	40	50.1	4.16	47.3	3.88	44.5	3.61	41.7	3.34	38.9	3.10
	47	43	50.1	3.95	47.3	3.69	44.5	3.45	41.7	3.19	38.9	2.96
	51	47	50.1	3.77	47.3	3.52	44.5	3.29	41.7	3.05	38.9	2.83
	54	50	50.1	3.64	47.3	3.41	44.5	3.18	41.7	2.95	38.9	2.74
	57	53	50.1	3.51	47.3	3.29	44.5	3.06	41.7	2.85	38.9	2.64
	60	56	50.1	3.40	47.3	3.18	44.5	2.97	41.7	2.77	38.9	2.56

4TVH0048B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
70	-4	-4.4	37.5	5.69	37.5	5.83	37.2	5.95	36.5	5.86	33.9	5.38
	1	0	41.0	5.90	40.7	6.01	38.9	5.69	36.5	5.25	33.9	4.81
	5	3	43.1	6.18	41.4	5.91	38.9	5.47	36.5	5.05	33.9	4.64
	10	9	43.8	5.96	41.4	5.53	38.9	5.13	36.5	4.74	33.9	4.36
	14	12	43.8	5.59	41.4	5.22	38.9	4.84	36.5	4.46	33.9	4.12
	19	18	43.8	4.90	41.4	4.57	38.9	4.24	36.5	3.92	33.9	3.62
	23	21	43.8	4.64	41.4	4.34	38.9	4.03	36.5	3.74	33.9	3.45
	27	25	43.8	4.22	41.4	3.95	38.9	3.67	36.5	3.40	33.9	3.14
	32	30	43.8	3.94	41.4	3.68	38.9	3.44	36.5	3.18	33.9	2.95
	37	36	43.8	3.69	41.4	3.46	38.9	3.23	36.5	3.00	33.9	2.77
	44	40	43.8	3.56	41.4	3.33	38.9	3.11	36.5	2.89	33.9	2.68
	47	43	43.8	3.39	41.4	3.17	38.9	2.97	36.5	2.77	33.9	2.56
	51	47	43.8	3.24	41.4	3.05	38.9	2.84	36.5	2.64	33.9	2.45
	54	50	43.8	3.13	41.4	2.94	38.9	2.75	36.5	2.56	33.9	2.38
	57	53	43.8	3.03	41.4	2.84	38.9	2.66	36.5	2.49	33.9	2.30
	60	56	43.8	2.93	41.4	2.75	38.9	2.57	36.5	2.40	33.9	2.23
60	-4	-4.4	37.2	6.01	35.5	5.68	33.4	5.27	31.2	4.85	29.1	4.46
	1	0	37.5	5.47	35.5	5.09	33.4	4.72	31.2	4.36	29.1	4.01
	5	3	37.5	5.25	35.5	4.90	33.4	4.55	31.2	4.20	29.1	3.88
	10	9	37.5	4.94	35.5	4.61	33.4	4.28	31.2	3.97	29.1	3.66
	14	12	37.5	4.66	35.5	4.34	33.4	4.05	31.2	3.74	29.1	3.46
	19	18	37.5	4.08	35.5	3.81	33.4	3.56	31.2	3.30	29.1	3.06
	23	21	37.5	3.88	35.5	3.63	33.4	3.39	31.2	3.16	29.1	2.91
	27	25	37.5	3.53	35.5	3.30	33.4	3.10	31.2	2.88	29.1	2.66
	32	30	37.5	3.30	35.5	3.10	33.4	2.90	31.2	2.69	29.1	2.50
	37	36	37.5	3.12	35.5	2.93	33.4	2.73	31.2	2.55	29.1	2.36
	44	40	37.5	3.00	35.5	2.82	33.4	2.63	31.2	2.45	29.1	2.28
	47	43	37.5	2.85	35.5	2.69	33.4	2.52	31.2	2.35	29.1	2.19
	51	47	37.5	2.74	35.5	2.57	33.4	2.41	31.2	2.24	29.1	2.10
	54	50	37.5	2.64	35.5	2.50	33.4	2.34	31.2	2.18	29.1	2.04
	57	53	37.5	2.56	35.5	2.41	33.4	2.25	31.2	2.11	29.1	1.96
	60	56	37.5	2.50	35.5	2.34	33.4	2.21	31.2	2.06	29.1	1.93
50	-4	-4.4	31.4	4.89	29.6	4.56	27.8	4.23	26.0	3.92	24.2	3.62
	1	0	31.4	4.39	29.6	4.10	27.8	3.83	26.0	3.55	24.2	3.28
	5	3	31.4	4.23	29.6	3.95	27.8	3.68	26.0	3.42	24.2	3.17
	10	9	31.4	3.99	29.6	3.73	27.8	3.49	26.0	3.23	24.2	3.00
	14	12	31.4	3.77	29.6	3.53	27.8	3.29	26.0	3.06	24.2	2.84
	19	18	31.4	3.32	29.6	3.12	27.8	2.91	26.0	2.71	24.2	2.51
	23	21	31.4	3.17	29.6	2.97	27.8	2.78	26.0	2.58	24.2	2.41
	27	25	31.4	2.89	29.6	2.72	27.8	2.54	26.0	2.38	24.2	2.21
	32	30	31.4	2.71	29.6	2.55	27.8	2.39	26.0	2.23	24.2	2.07
	37	36	31.4	2.56	29.6	2.41	27.8	2.25	26.0	2.11	24.2	1.97
	44	40	31.4	2.46	29.6	2.33	27.8	2.18	26.0	2.05	24.2	1.90
	47	43	31.4	2.36	29.6	2.23	27.8	2.08	26.0	1.95	24.2	1.83
	51	47	31.4	2.25	29.6	2.13	27.8	2.00	26.0	1.88	24.2	1.76
	54	50	31.4	2.19	29.6	2.07	27.8	1.95	26.0	1.83	24.2	1.71
	57	53	31.4	2.12	29.6	2.00	27.8	1.89	26.0	1.77	24.2	1.66
	60	56	31.4	2.07	29.6	1.95	27.8	1.83	26.0	1.72	24.2	1.61

4TVH0053B100NB

4TVH0053B100NB - Cooling

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	47.2	2.43	56.2	2.99	65.2	3.55	70.1	3.84	70.8	3.76	72.5	3.60	74.3	3.43
	54	47.2	2.48	56.2	3.04	65.2	3.62	69.0	3.81	69.7	3.74	71.4	3.58	73.2	3.52
	57	47.1	2.53	56.1	3.10	65.1	3.69	67.9	3.80	68.9	3.71	70.7	3.69	72.4	3.71
	61	47.1	2.58	56.0	3.17	65.1	3.76	67.1	3.82	67.8	3.85	69.5	3.89	71.3	3.92
	64	47.0	2.63	56.0	3.22	65.0	4.01	66.0	4.03	66.7	4.05	68.5	4.08	70.2	4.12
	68	47.0	2.68	55.9	3.43	64.2	4.21	64.9	4.22	66.0	4.24	67.7	4.29	69.4	4.33
	70	46.9	2.77	55.9	3.55	63.8	4.30	64.5	4.33	65.5	4.34	66.9	4.38	68.7	4.43
	73	46.9	2.95	55.8	3.81	62.7	4.50	63.4	4.53	64.5	4.55	66.2	4.59	67.9	4.62
	77	46.8	3.16	55.8	4.08	61.7	4.70	62.7	4.72	63.4	4.73	65.1	4.78	66.8	4.83
130	81	46.8	3.38	55.7	4.37	60.9	4.89	61.6	4.92	62.6	4.94	64.3	4.98	65.7	5.04
	84	46.7	3.60	55.7	4.67	59.8	5.09	60.8	5.12	61.5	5.14	63.2	5.20	64.9	5.24
	88	46.7	3.84	55.6	4.98	59.1	5.29	59.7	5.31	60.4	5.35	62.1	5.40	63.8	5.46
	91	46.6	4.09	55.6	5.32	58.0	5.50	58.6	5.51	59.7	5.55	61.4	5.61	63.1	5.66
	95	46.5	4.35	55.1	5.62	56.8	5.69	57.8	5.72	58.5	5.75	60.2	5.82	61.9	5.88
	99	45.1	4.41	52.7	5.53	54.4	5.60	55.1	5.62	56.0	5.66	57.4	5.72	59.1	5.78
	102	44.2	4.45	50.7	5.42	52.3	5.48	53.0	5.52	53.9	5.55	55.6	5.61	57.2	5.67
	108	44.2	4.71	49.7	5.61	51.3	5.67	52.0	5.71	53.0	5.74	54.9	5.80	56.5	5.87
	111	44.2	4.97	48.7	5.79	50.4	5.85	51.0	5.90	52.0	5.93	54.3	5.99	55.9	6.05
	115	44.2	5.24	47.8	5.98	49.4	6.04	50.0	6.10	51.0	6.12	53.6	6.19	55.2	6.25
	50	43.7	2.24	52.1	2.73	60.4	3.23	64.6	3.50	68.7	3.76	71.2	3.71	72.9	3.57
	54	43.7	2.26	52.0	2.78	60.3	3.30	64.5	3.57	68.7	3.84	70.4	3.69	71.8	3.54
	57	43.6	2.31	52.0	2.83	60.3	3.37	64.4	3.64	67.9	3.81	69.3	3.68	71.0	3.69
	61	43.6	2.36	51.9	2.89	60.2	3.43	64.4	3.70	66.8	3.82	68.5	3.86	69.9	3.90
	64	43.6	2.40	51.9	2.94	60.1	3.55	64.3	3.94	65.7	4.02	67.4	4.06	68.8	4.08
	68	43.5	2.45	51.8	3.05	60.1	3.81	64.2	4.21	64.9	4.22	66.3	4.25	68.0	4.29
	70	43.5	2.47	51.8	3.17	60.0	3.95	63.5	4.30	64.2	4.33	65.9	4.35	67.6	4.39
	73	43.4	2.64	51.7	3.39	60.0	4.23	62.7	4.49	63.4	4.51	64.8	4.56	66.5	4.59
	77	43.4	2.82	51.7	3.63	59.9	4.54	61.7	4.70	62.3	4.72	64.0	4.75	65.4	4.80
120	81	43.4	3.01	51.6	3.89	59.8	4.86	60.6	4.88	61.6	4.91	63.0	4.96	64.7	4.99
	84	43.3	3.21	51.6	4.14	58.8	5.07	59.8	5.09	60.5	5.10	61.9	5.15	63.6	5.21
	88	43.3	3.43	51.5	4.43	58.0	5.25	58.7	5.29	59.4	5.31	61.1	5.36	62.5	5.41
	91	43.2	3.65	51.5	4.72	56.9	5.46	57.6	5.48	58.6	5.51	60.0	5.56	61.7	5.62
	95	43.1	3.89	51.3	5.03	56.1	5.66	56.8	5.68	57.4	5.72	59.2	5.77	60.5	5.83
	99	41.8	3.92	49.8	5.09	53.4	5.56	54.1	5.60	54.7	5.62	56.4	5.67	58.1	5.73
	102	40.9	3.96	48.7	5.14	51.3	5.45	52.3	5.47	53.0	5.51	54.3	5.56	55.9	5.62
	108	40.9	4.21	48.7	5.47	50.4	5.63	51.7	5.66	52.3	5.69	53.3	5.74	54.9	5.82
	111	40.9	4.45	48.7	5.79	49.4	5.82	51.0	5.84	51.7	5.87	52.3	5.93	53.9	6.00
	115	40.9	4.69	48.7	6.11	48.4	5.99	50.4	6.03	51.0	6.05	51.3	6.10	53.0	6.20
	50	39.9	2.02	47.6	2.47	55.2	2.93	59.4	3.17	63.2	3.41	70.1	3.82	71.5	3.69
	54	39.9	2.07	47.5	2.52	55.1	2.99	59.3	3.22	63.1	3.47	69.0	3.81	70.4	3.68
	57	39.8	2.10	47.5	2.56	55.1	3.04	59.2	3.30	63.1	3.54	68.3	3.79	69.6	3.68
	61	39.8	2.13	47.4	2.61	55.0	3.10	59.2	3.34	63.0	3.60	67.1	3.84	68.5	3.86
	64	39.8	2.18	47.4	2.66	54.9	3.17	59.1	3.44	62.9	3.79	66.0	4.03	67.8	4.07
	68	39.7	2.23	47.3	2.72	54.9	3.34	59.1	3.70	62.8	4.07	65.3	4.23	66.6	4.27
	70	39.7	2.25	47.3	2.79	54.8	3.47	59.0	3.82	62.8	4.22	64.9	4.33	66.2	4.35
	73	39.6	2.35	47.2	3.00	54.8	3.71	58.9	4.11	62.4	4.49	63.8	4.53	65.1	4.56
	77	39.6	2.51	47.2	3.20	54.7	3.98	58.9	4.40	61.3	4.69	62.7	4.72	64.0	4.76
110	81	39.6	2.67	47.1	3.43	54.7	4.25	58.8	4.72	60.6	4.88	61.9	4.92	63.3	4.97
	84	39.5	2.85	47.1	3.65	54.6	4.55	58.8	5.04	59.5	5.08	60.8	5.12	62.2	5.16
	88	39.5	3.04	47.0	3.90	54.6	4.86	57.7	5.25	58.4	5.28	59.7	5.32	61.4	5.36
	91	39.4	3.23	47.0	4.16	54.5	5.19	56.9	5.45	57.6	5.47	59.0	5.52	60.4	5.57
	95	39.3	3.43	46.8	4.43	54.4	5.53	55.7	5.64	56.4	5.67	57.8	5.73	59.2	5.77
	99	38.2	3.47	45.4	4.46	52.4	5.52	53.1	5.56	53.7	5.58	55.4	5.63	56.7	5.68
	102	37.4	3.49	44.5	4.51	50.7	5.41	51.3	5.45	52.0	5.47	53.3	5.52	54.6	5.57
	108	37.4	3.71	44.5	4.78	50.0	5.60	50.7	5.63	51.3	5.64	52.3	5.71	53.6	5.75
	111	37.4	3.92	44.5	5.05	49.4	5.78	50.0	5.82	50.7	5.83	51.3	5.88	52.6	5.93
	115	37.4	4.13	44.5	5.32	48.7	5.96	49.4	5.99	50.0	6.01	50.4	6.06	51.7	6.11

4TVH0053B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	36.5	1.83	43.4	2.21	50.3	2.63	53.8	2.83	57.3	3.05	64.2	3.48	70.1	3.81
	54	36.4	1.86	43.4	2.26	50.3	2.67	53.8	2.89	57.2	3.11	64.1	3.55	69.3	3.80
	57	36.4	1.88	43.3	2.30	50.2	2.73	53.7	2.94	57.1	3.17	64.1	3.62	68.3	3.78
	61	36.3	1.92	43.3	2.34	50.2	2.78	53.6	3.00	57.1	3.22	64.0	3.69	67.1	3.84
	64	36.3	1.97	43.2	2.39	50.1	2.83	53.6	3.06	57.0	3.30	63.9	3.90	66.4	4.03
	68	36.3	2.00	43.2	2.43	50.1	2.91	53.5	3.21	57.0	3.53	63.9	4.21	65.3	4.23
	70	36.2	2.02	43.1	2.46	50.0	3.03	53.5	3.32	56.9	3.65	63.5	4.30	64.9	4.33
	73	36.2	2.07	43.1	2.62	50.0	3.23	53.4	3.57	56.9	3.92	62.4	4.49	63.8	4.53
	77	36.1	2.21	43.0	2.79	49.9	3.46	53.4	3.81	56.8	4.21	61.7	4.70	63.0	4.72
100	81	36.1	2.36	43.0	2.99	49.9	3.69	53.3	4.08	56.8	4.49	60.6	4.88	61.9	4.93
	84	36.1	2.51	42.9	3.18	49.8	3.95	53.3	4.37	56.7	4.80	59.8	5.09	60.8	5.12
	88	36.0	2.67	42.9	3.41	49.8	4.21	53.2	4.66	56.7	5.12	58.7	5.28	60.1	5.32
	91	36.0	2.84	42.9	3.62	49.7	4.49	53.2	4.98	56.6	5.44	57.6	5.48	59.0	5.52
	95	35.9	3.03	42.7	3.85	49.6	4.80	53.0	5.30	55.4	5.63	56.8	5.68	57.8	5.73
	99	34.8	3.04	41.5	3.90	48.1	4.86	51.4	5.36	52.7	5.55	54.1	5.60	55.4	5.63
	102	34.1	3.06	40.6	3.92	47.1	4.89	50.4	5.41	51.0	5.42	52.0	5.47	53.3	5.53
	108	34.1	3.25	40.6	4.16	47.1	5.19	50.4	5.73	50.4	5.60	51.0	5.66	52.3	5.72
	111	34.1	3.43	40.6	4.39	47.1	5.47	50.4	6.05	49.7	5.77	50.0	5.84	51.3	5.91
	115	34.1	3.60	40.6	4.62	47.1	5.77	50.4	6.38	49.1	5.94	49.1	6.03	50.4	6.10
	50	32.7	1.64	38.9	1.98	45.1	2.32	48.6	2.52	51.7	2.69	58.0	3.09	64.2	3.48
	54	32.6	1.66	38.8	2.00	45.1	2.37	48.6	2.56	51.7	2.75	57.9	3.15	64.1	3.54
	57	32.6	1.70	38.8	2.04	45.0	2.41	48.5	2.61	51.6	2.80	57.9	3.20	64.1	3.60
	61	32.6	1.72	38.7	2.08	45.0	2.46	48.5	2.66	51.6	2.85	57.8	3.27	64.0	3.69
	64	32.5	1.75	38.7	2.13	44.9	2.51	48.4	2.71	51.5	2.91	57.7	3.33	63.9	3.89
	68	32.5	1.78	38.7	2.15	44.9	2.56	48.3	2.77	51.5	3.03	57.7	3.58	63.9	4.18
	70	32.4	1.80	38.6	2.18	44.9	2.61	48.3	2.87	51.4	3.14	57.6	3.70	63.5	4.30
	73	32.4	1.83	38.6	2.26	44.8	2.78	48.2	3.06	51.4	3.36	57.5	3.97	62.4	4.49
	77	32.4	1.93	38.6	2.42	44.8	2.98	48.2	3.28	51.3	3.59	57.5	4.25	61.7	4.70
90	81	32.4	2.05	38.5	2.58	44.7	3.17	48.1	3.50	51.3	3.84	57.4	4.56	60.6	4.88
	84	32.3	2.19	38.5	2.77	44.7	3.39	48.1	3.74	51.2	4.09	57.4	4.87	59.5	5.09
	88	32.3	2.32	38.4	2.93	44.6	3.62	48.1	3.98	51.2	4.37	57.3	5.20	58.7	5.28
	91	32.3	2.47	38.4	3.12	44.6	3.85	48.0	4.24	51.1	4.66	56.6	5.45	57.6	5.48
	95	32.2	2.63	38.3	3.32	44.5	4.11	47.9	4.53	50.9	4.98	55.4	5.63	56.8	5.68
	99	31.2	2.64	37.1	3.36	43.1	4.14	46.4	4.57	49.4	5.03	53.1	5.55	54.1	5.60
	102	30.6	2.66	36.4	3.37	42.2	4.18	45.5	4.62	48.4	5.08	51.0	5.44	52.0	5.47
	108	30.6	2.80	36.4	3.57	42.2	4.44	45.5	4.91	48.4	5.40	50.0	5.62	51.0	5.66
	111	30.6	2.96	36.4	3.76	42.2	4.69	45.5	5.19	48.4	5.71	49.1	5.80	50.0	5.84
	115	30.6	3.11	36.4	3.95	42.2	4.94	45.5	5.47	48.4	6.03	48.1	5.99	49.1	6.03
	50	29.1	1.45	34.7	1.75	40.2	2.04	43.0	2.20	45.8	2.36	51.4	2.69	56.9	3.04
	54	29.0	1.48	34.7	1.76	40.2	2.08	43.0	2.24	45.8	2.40	51.3	2.74	56.9	3.09
	57	29.0	1.49	34.6	1.80	40.2	2.12	42.9	2.27	45.7	2.45	51.3	2.79	56.8	3.15
	61	29.0	1.52	34.6	1.83	40.1	2.15	42.9	2.32	45.7	2.50	51.2	2.85	56.8	3.21
	64	28.9	1.55	34.6	1.87	40.1	2.20	42.9	2.37	45.6	2.55	51.2	2.91	56.7	3.28
	68	28.9	1.59	34.5	1.89	40.1	2.24	42.8	2.41	45.6	2.59	51.1	3.01	56.6	3.50
	70	28.9	1.60	34.5	1.92	40.0	2.26	42.8	2.43	45.5	2.66	51.1	3.12	56.6	3.63
	73	28.9	1.61	34.5	1.96	40.0	2.37	42.7	2.59	45.5	2.83	51.0	3.34	56.5	3.89
	77	28.8	1.67	34.4	2.08	39.9	2.53	42.7	2.78	45.4	3.04	50.9	3.57	56.5	4.17
80	81	28.8	1.78	34.4	2.21	39.9	2.71	42.6	2.96	45.4	3.23	50.9	3.81	56.4	4.46
	84	28.8	1.89	34.4	2.36	39.9	2.88	42.6	3.16	45.4	3.46	50.8	4.08	56.4	4.76
	88	28.7	2.00	34.3	2.51	39.8	3.06	42.6	3.37	45.3	3.69	50.8	4.35	56.3	5.09
	91	28.7	2.13	34.3	2.67	39.8	3.27	42.5	3.58	45.3	3.92	50.7	4.65	56.2	5.44
	95	28.6	2.26	34.2	2.83	39.7	3.47	42.4	3.81	45.1	4.18	50.6	4.96	55.4	5.63
	99	27.8	2.27	33.2	2.85	38.5	3.50	41.1	3.86	43.8	4.23	49.1	5.02	52.7	5.53
	102	27.2	2.29	32.5	2.87	37.7	3.54	40.3	3.89	42.9	4.27	48.1	5.07	51.0	5.42
	108	27.2	2.41	32.5	3.04	37.7	3.75	40.3	4.12	42.9	4.53	48.1	5.37	50.4	5.61
	111	27.2	2.55	32.5	3.20	37.7	3.96	40.3	4.35	42.9	4.80	48.1	5.69	49.7	5.79
	115	27.2	2.68	32.5	3.36	37.7	4.17	40.3	4.59	42.9	5.05	48.1	6.00	49.1	5.98

4TVH0053B100NB - Cooling (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)	Indoor Temperature (°F, WB)													
		57		61		64		67		69		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
	50	25.4	1.28	30.3	1.51	35.0	1.76	37.8	1.89	40.2	2.03	45.1	2.31	50.0	2.61
	54	25.4	1.29	30.3	1.54	35.0	1.80	37.8	1.93	40.2	2.07	45.1	2.36	49.9	2.66
	57	25.4	1.32	30.2	1.56	35.0	1.83	37.7	1.97	40.2	2.12	45.0	2.40	49.9	2.69
	61	25.3	1.34	30.2	1.60	34.9	1.87	37.7	2.00	40.1	2.14	45.0	2.45	49.8	2.75
	64	25.3	1.35	30.2	1.61	34.9	1.89	37.7	2.04	40.1	2.19	44.9	2.50	49.8	2.80
	68	25.3	1.38	30.2	1.65	34.9	1.93	37.6	2.08	40.1	2.24	44.9	2.53	49.7	2.89
	70	25.3	1.39	30.1	1.66	34.8	1.96	37.6	2.10	40.0	2.26	44.9	2.58	49.7	2.99
	73	25.2	1.41	30.1	1.70	34.8	1.99	37.6	2.16	40.0	2.36	44.8	2.77	49.6	3.20
	77	25.2	1.45	30.1	1.76	34.8	2.13	37.5	2.31	39.9	2.52	44.8	2.95	49.6	3.43
70	81	25.2	1.52	30.0	1.87	34.7	2.26	37.5	2.47	39.9	2.69	44.7	3.16	49.5	3.66
	84	25.2	1.61	30.0	2.00	34.7	2.41	37.4	2.63	39.9	2.87	44.7	3.37	49.5	3.91
	88	25.1	1.72	30.0	2.13	34.7	2.56	37.4	2.80	39.8	3.05	44.6	3.58	49.4	4.17
	91	25.1	1.82	30.0	2.25	34.6	2.73	37.4	2.99	39.8	3.25	44.6	3.81	49.4	4.45
	95	25.0	1.93	29.9	2.39	34.5	2.90	37.3	3.17	39.7	3.46	44.5	4.07	49.2	4.73
	99	24.3	1.94	29.0	2.40	33.5	2.93	36.1	3.20	38.5	3.49	43.1	4.12	47.8	4.78
	102	23.8	1.94	28.3	2.41	32.8	2.94	35.4	3.22	37.7	3.52	42.2	4.16	46.8	4.83
	108	23.8	2.04	28.3	2.56	32.8	3.11	35.4	3.42	37.7	3.73	42.2	4.40	46.8	5.13
	111	23.8	2.14	28.3	2.69	32.8	3.28	35.4	3.60	37.7	3.95	42.2	4.66	46.8	5.41
	115	23.8	2.24	28.3	2.84	32.8	3.46	35.4	3.80	37.7	4.16	42.2	4.91	46.8	5.71
	50	21.8	1.11	26.0	1.30	30.2	1.50	32.3	1.61	34.4	1.73	38.5	1.96	42.7	2.19
	54	21.8	1.12	26.0	1.33	30.2	1.52	32.2	1.64	34.3	1.75	38.5	1.99	42.6	2.23
	57	21.7	1.14	26.0	1.35	30.1	1.56	32.2	1.67	34.3	1.78	38.4	2.02	42.6	2.26
	61	21.7	1.16	25.9	1.36	30.1	1.59	32.2	1.70	34.3	1.82	38.4	2.05	42.6	2.31
	64	21.7	1.18	25.9	1.39	30.1	1.61	32.1	1.73	34.2	1.86	38.4	2.10	42.5	2.36
	68	21.7	1.19	25.9	1.41	30.1	1.64	32.1	1.76	34.2	1.88	38.3	2.13	42.5	2.40
	70	21.7	1.21	25.9	1.43	30.0	1.66	32.1	1.77	34.2	1.89	38.3	2.15	42.4	2.42
	73	21.6	1.23	25.8	1.45	30.0	1.68	32.0	1.81	34.1	1.94	38.3	2.25	42.4	2.57
	77	21.6	1.24	25.8	1.48	30.0	1.75	32.0	1.91	34.1	2.05	38.2	2.39	42.4	2.75
60	81	21.6	1.29	25.7	1.56	29.9	1.87	32.0	2.02	34.1	2.19	38.2	2.55	42.3	2.94
	84	21.6	1.36	25.7	1.66	29.9	1.99	32.0	2.15	34.0	2.34	38.2	2.72	42.3	3.14
	88	21.6	1.45	25.7	1.76	29.9	2.12	31.9	2.29	34.0	2.48	38.1	2.90	42.2	3.33
	91	21.5	1.52	25.7	1.87	29.9	2.24	31.9	2.43	34.0	2.64	38.1	3.07	42.2	3.55
	95	21.5	1.61	25.6	1.98	29.7	2.37	31.8	2.58	33.9	2.80	38.0	3.28	42.1	3.79
	99	20.8	1.62	24.9	1.98	28.9	2.39	30.8	2.61	32.8	2.83	36.8	3.31	40.8	3.82
	102	20.4	1.62	24.3	1.99	28.3	2.40	30.2	2.62	32.2	2.85	36.1	3.33	40.0	3.85
	108	20.4	1.72	24.3	2.10	28.3	2.52	30.2	2.77	32.2	3.03	36.1	3.54	40.0	4.07
	111	20.4	1.81	24.3	2.21	28.3	2.66	30.2	2.93	32.2	3.20	36.1	3.74	40.0	4.29
	115	20.4	1.91	24.3	2.32	28.3	2.79	30.2	3.07	32.2	3.37	36.1	3.95	40.0	4.51
	50	18.2	0.96	21.6	1.09	25.2	1.27	26.9	1.35	28.6	1.43	32.1	1.61	35.7	1.78
	54	18.1	0.97	21.6	1.12	25.1	1.28	26.9	1.36	28.6	1.46	32.1	1.64	35.7	1.82
	57	18.1	0.97	21.6	1.13	25.1	1.30	26.8	1.39	28.6	1.49	32.1	1.66	35.7	1.86
	61	18.1	0.98	21.6	1.16	25.1	1.33	26.8	1.41	28.6	1.50	32.0	1.70	35.6	1.88
	64	18.1	1.01	21.6	1.17	25.1	1.35	26.8	1.44	28.5	1.52	32.0	1.72	35.6	1.92
	68	18.1	1.02	21.5	1.19	25.0	1.36	26.8	1.46	28.5	1.56	32.0	1.75	35.6	1.96
	70	18.1	1.03	21.5	1.21	25.0	1.38	26.7	1.48	28.4	1.57	31.9	1.77	35.5	1.98
	73	18.0	1.05	21.5	1.22	25.0	1.40	26.7	1.50	28.4	1.60	31.9	1.81	35.5	2.02
	77	18.0	1.06	21.5	1.23	25.0	1.43	26.7	1.52	28.4	1.65	31.9	1.89	35.5	2.15
50	81	18.0	1.08	21.5	1.28	24.9	1.50	26.7	1.62	28.4	1.75	31.9	2.02	35.4	2.30
	84	18.0	1.13	21.4	1.35	24.9	1.60	26.6	1.73	28.3	1.87	31.8	2.14	35.4	2.45
	88	18.0	1.21	21.4	1.44	24.9	1.70	26.6	1.83	28.3	1.98	31.8	2.27	35.4	2.61
	91	18.0	1.27	21.4	1.52	24.9	1.80	26.6	1.94	28.3	2.10	31.8	2.42	35.3	2.78
	95	17.9	1.34	21.3	1.61	24.8	1.89	26.5	2.05	28.2	2.23	31.7	2.57	35.2	2.94
	99	17.3	1.34	20.7	1.61	24.0	1.91	25.7	2.07	27.4	2.24	30.7	2.59	34.2	2.96
	102	17.0	1.34	20.3	1.61	23.6	1.92	25.2	2.08	26.8	2.24	30.1	2.61	33.5	2.99
	108	17.0	1.41	20.3	1.71	23.6	2.03	25.2	2.20	26.8	2.36	30.1	2.75	33.5	3.17
	111	17.0	1.49	20.3	1.80	23.6	2.14	25.2	2.32	26.8	2.48	30.1	2.91	33.5	3.36
	115	17.0	1.56	20.3	1.89	23.6	2.25	25.2	2.45	26.8	2.61	30.1	3.06	33.5	3.54

4TVH0053B100NB - Heating

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
130	-4	-4.4	39.4	3.44	39.4	3.71	39.1	3.99	39.1	4.24	38.7	4.51
	1	0	42.9	3.86	42.9	4.10	42.6	4.34	42.6	4.59	42.2	4.83
	5	3	45.4	4.21	45.0	4.44	45.0	4.70	44.7	4.93	44.7	5.17
	10	9	47.5	4.43	47.5	4.66	47.5	4.88	47.1	5.10	47.1	5.34
	14	12	49.9	4.64	49.9	4.85	49.6	5.06	49.6	5.29	49.2	5.50
	19	18	53.7	4.75	53.7	4.94	53.7	5.14	53.4	5.33	53.4	5.52
	23	21	56.2	4.90	56.2	5.09	55.8	5.28	55.8	5.45	55.5	5.63
	27	25	58.3	4.78	58.3	4.96	58.3	5.13	58.0	5.30	58.0	5.47
	32	30	61.8	4.97	61.8	5.14	61.8	5.29	61.4	5.45	61.4	5.61
	37	36	65.3	5.13	65.3	5.28	64.9	5.44	64.9	5.58	64.6	5.73
	44	40	67.4	5.23	67.4	5.36	67.4	5.51	67.0	5.67	67.0	5.81
	47	43	69.8	5.25	69.5	5.39	69.5	5.54	69.5	5.68	69.1	5.82
	51	47	71.9	5.28	71.9	5.41	71.6	5.55	71.6	5.68	71.2	5.81
	54	50	74.0	5.36	74.0	5.50	74.0	5.62	73.6	5.76	71.2	5.58
	57	53	76.5	5.44	76.5	5.56	76.1	5.68	76.1	5.81	71.2	5.38
	60	56	78.9	5.51	78.6	5.63	78.6	5.76	76.5	5.66	71.2	5.19
120	-4	-4.4	39.1	3.81	39.1	4.05	39.1	4.29	38.7	4.55	38.7	4.80
	1	0	42.6	4.18	42.6	4.42	42.6	4.64	42.2	4.87	42.2	5.10
	5	3	45.0	4.53	45.0	4.76	44.7	4.97	44.7	5.19	44.7	5.42
	10	9	47.5	4.74	47.1	4.94	47.1	5.15	47.1	5.38	46.8	5.57
	14	12	49.6	4.92	49.6	5.12	49.6	5.33	49.2	5.52	49.2	5.72
	19	18	53.7	5.01	53.4	5.19	53.4	5.36	53.4	5.54	53.1	5.72
	23	21	56.2	5.15	55.8	5.33	55.8	5.49	55.5	5.66	55.5	5.83
	27	25	58.3	5.02	58.0	5.18	58.0	5.33	58.0	5.50	57.6	5.65
	32	30	61.8	5.19	61.8	5.33	61.4	5.49	61.4	5.63	61.1	5.78
	37	36	65.3	5.33	64.9	5.47	64.9	5.61	64.6	5.74	64.6	5.88
	44	40	67.4	5.42	67.4	5.55	67.0	5.68	67.0	5.83	65.6	5.81
	47	43	69.5	5.45	69.5	5.57	69.1	5.70	69.1	5.84	65.6	5.52
	51	47	71.9	5.46	71.6	5.58	71.6	5.71	70.5	5.73	65.6	5.26
	54	50	74.0	5.54	74.0	5.66	73.6	5.78	70.5	5.52	65.6	5.07
	57	53	76.5	5.61	76.1	5.72	75.4	5.77	70.5	5.31	65.6	4.88
	60	56	78.6	5.67	78.6	5.79	75.4	5.56	70.5	5.13	65.6	4.72
110	-4	-4.4	39.1	4.16	39.1	4.39	38.7	4.63	38.7	4.85	38.4	5.08
	1	0	42.6	4.51	42.6	4.72	42.2	4.93	42.2	5.15	42.2	5.36
	5	3	45.0	4.86	44.7	5.06	44.7	5.26	44.7	5.46	44.3	5.67
	10	9	47.1	5.04	47.1	5.24	47.1	5.44	46.8	5.62	46.8	5.81
	14	12	49.6	5.20	49.6	5.40	49.2	5.58	49.2	5.76	49.2	5.95
	19	18	53.4	5.28	53.4	5.42	53.4	5.60	53.1	5.76	53.1	5.93
	23	21	55.8	5.39	55.8	5.55	55.5	5.71	55.5	5.87	55.5	6.03
	27	25	58.0	5.25	58.0	5.39	58.0	5.54	57.6	5.68	57.6	5.82
	32	30	61.4	5.40	61.4	5.54	61.4	5.68	61.1	5.81	60.4	5.82
	37	36	64.9	5.54	64.9	5.67	64.6	5.79	64.6	5.92	60.4	5.45
	44	40	67.0	5.62	67.0	5.73	67.0	5.87	64.6	5.68	60.4	5.23
	47	43	69.5	5.63	69.1	5.76	69.1	5.87	64.6	5.41	60.4	4.97
	51	47	71.6	5.65	71.6	5.77	69.1	5.58	64.6	5.15	60.4	4.74
	54	50	73.6	5.71	73.6	5.81	69.1	5.39	64.6	4.98	60.4	4.58
	57	53	76.1	5.78	73.6	5.60	69.1	5.19	64.6	4.80	60.4	4.42
	60	56	77.8	5.81	73.6	5.40	69.1	5.01	64.6	4.64	60.4	4.27

4TVH0053B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
100	-4	-4.4	38.7	4.53	38.7	4.74	38.7	4.94	38.4	5.15	38.4	5.36
	1	0	42.2	4.86	42.2	5.04	41.4	5.24	41.9	5.42	41.9	5.61
	5	3	44.7	5.18	44.7	5.36	43.5	5.55	44.3	5.73	44.3	5.92
	10	9	47.1	5.35	46.8	5.52	45.9	5.70	46.8	5.88	46.4	6.05
	14	12	49.2	5.51	49.2	5.67	48.3	5.83	48.9	6.02	48.9	6.17
	19	18	53.4	5.52	53.1	5.68	51.5	5.83	53.1	5.98	52.7	6.11
	23	21	55.5	5.65	55.5	5.79	53.9	5.94	55.1	6.06	54.8	6.14
	27	25	58.0	5.49	57.6	5.61	55.9	5.73	57.6	5.87	54.8	5.57
	32	30	61.4	5.62	61.1	5.73	59.3	5.87	58.6	5.65	54.8	5.18
	37	36	64.6	5.73	64.6	5.87	61.0	5.73	58.6	5.29	54.8	4.86
	44	40	67.0	5.82	66.7	5.93	61.0	5.50	58.6	5.08	54.8	4.67
	47	43	69.1	5.83	67.0	5.65	61.0	5.40	58.6	4.83	54.8	4.44
	51	47	70.9	5.77	67.0	5.38	61.6	4.99	58.6	4.61	54.8	4.24
	54	50	70.9	5.55	67.0	5.18	61.6	4.81	58.6	4.44	54.8	4.11
	57	53	70.9	5.35	67.0	4.99	61.6	4.64	58.6	4.29	54.8	3.96
	60	56	70.9	5.17	67.0	4.82	61.6	4.48	58.6	4.16	54.8	3.84
90	-4	-4.4	38.7	4.90	38.4	5.08	38.4	5.28	38.4	5.46	38.4	5.63
	1	0	42.2	5.19	42.2	5.36	41.9	5.54	41.9	5.70	41.9	5.87
	5	3	44.3	5.51	44.3	5.67	44.3	5.83	44.3	6.00	44.0	6.16
	10	9	46.8	5.66	46.8	5.81	46.8	5.98	46.4	6.14	46.4	6.29
	14	12	49.2	5.79	49.2	5.95	48.9	6.10	48.9	6.25	48.9	6.40
	19	18	53.1	5.79	53.1	5.93	53.1	6.05	52.7	6.19	49.2	5.70
	23	21	55.5	5.90	55.5	6.03	55.1	6.15	53.1	5.89	49.2	5.40
	27	25	57.6	5.70	57.6	5.83	56.6	5.79	53.1	5.34	49.2	4.91
	32	30	61.1	5.83	60.1	5.81	56.6	5.39	53.1	4.97	49.2	4.59
	37	36	63.9	5.84	60.1	5.44	56.6	5.04	53.1	4.67	49.2	4.31
	44	40	63.9	5.60	60.1	5.22	56.6	4.85	53.1	4.49	49.2	4.13
	47	43	63.9	5.34	60.1	4.97	56.6	4.61	53.1	4.28	49.2	3.95
	51	47	63.9	5.08	60.1	4.74	56.6	4.42	53.1	4.08	49.2	3.76
	54	50	63.9	4.90	60.1	4.58	56.6	4.26	53.1	3.95	49.2	3.64
	57	53	63.9	4.71	60.1	4.42	56.6	4.11	53.1	3.81	49.2	3.52
	60	56	63.9	4.56	60.1	4.27	56.6	3.97	53.1	3.69	49.2	3.41
80	-4	-4.4	38.4	5.26	38.4	5.42	38.4	5.58	38.1	5.76	38.1	5.92
	1	0	41.9	5.52	41.9	5.66	41.9	5.82	41.5	5.97	41.5	6.13
	5	3	44.3	5.82	44.3	5.98	44.0	6.13	44.0	6.27	43.6	6.38
	10	9	46.8	5.97	46.4	6.11	46.4	6.25	46.4	6.38	43.6	5.99
	14	12	48.9	6.09	48.9	6.22	48.9	6.36	47.1	6.15	43.6	5.65
	19	18	53.1	6.04	52.7	6.16	50.3	5.83	47.1	5.38	43.6	4.96
	23	21	55.1	6.14	53.4	5.97	50.3	5.54	47.1	5.12	43.6	4.70
	27	25	56.9	5.82	53.4	5.41	50.3	5.03	47.1	4.65	43.6	4.28
	32	30	56.9	5.41	53.4	5.04	50.3	4.69	47.1	4.34	43.6	4.01
	37	36	56.9	5.07	53.4	4.74	50.3	4.40	47.1	4.07	43.6	3.76
	44	40	56.9	4.87	53.4	4.55	50.3	4.24	47.1	3.92	43.6	3.63
	47	43	56.9	4.64	53.4	4.33	50.3	4.03	47.1	3.75	43.6	3.47
	51	47	56.9	4.43	53.4	4.15	50.3	3.86	47.1	3.58	43.6	3.32
	54	50	56.9	4.27	53.4	4.00	50.3	3.73	47.1	3.47	43.6	3.21
	57	53	56.9	4.12	53.4	3.86	50.3	3.60	47.1	3.35	43.6	3.10
	60	56	56.9	3.99	53.4	3.74	50.3	3.48	47.1	3.25	43.6	3.01

4TVH0053B100NB - Heating (continued)

TC(Total Capacity, MBH), PI(Power Input, kW)

Combi. (%)	Outdoor Temperature (°F)		Indoor Temperature (°F, WB)									
			61		65		70		72		75	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	DB	WB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
70	-4	-4.4	38.4	5.62	38.1	5.77	38.1	5.90	38.1	6.05	38.1	6.20
	1	0	41.9	5.84	41.5	5.98	41.5	6.11	41.2	6.15	38.4	5.65
	5	3	44.0	6.15	44.0	6.27	44.0	6.41	41.2	5.93	38.4	5.44
	10	9	46.4	6.27	46.4	6.40	44.0	6.03	41.2	5.56	38.4	5.10
	14	12	48.9	6.38	46.8	6.11	44.0	5.67	41.2	5.25	38.4	4.83
	19	18	49.6	5.74	46.8	5.35	44.0	4.98	41.2	4.61	38.4	4.24
	23	21	49.6	5.45	46.8	5.09	44.0	4.72	41.2	4.38	38.4	4.05
	27	25	49.6	4.96	46.8	4.63	44.0	4.31	41.2	4.00	38.4	3.69
	32	30	49.6	4.61	46.8	4.32	44.0	4.02	41.2	3.73	38.4	3.46
	37	36	49.6	4.34	46.8	4.06	44.0	3.79	41.2	3.52	38.4	3.26
	44	40	49.6	4.17	46.8	3.90	44.0	3.65	41.2	3.38	38.4	3.15
	47	43	49.6	3.97	46.8	3.73	44.0	3.48	41.2	3.24	38.4	3.01
	51	47	49.6	3.80	46.8	3.57	44.0	3.33	41.2	3.10	38.4	2.88
	54	50	49.6	3.68	46.8	3.44	44.0	3.21	41.2	3.00	38.4	2.79
	57	53	49.6	3.55	46.8	3.33	44.0	3.11	41.2	2.90	38.4	2.69
	60	56	49.6	3.44	46.8	3.22	44.0	3.03	41.2	2.82	38.4	2.62
60	-4	-4.4	38.1	5.99	38.1	6.11	37.7	6.17	35.2	5.68	32.8	5.24
	1	0	41.5	6.19	40.2	5.97	37.7	5.55	35.2	5.12	32.8	4.71
	5	3	42.6	6.16	40.2	5.73	37.7	5.34	35.2	4.93	32.8	4.54
	10	9	42.6	5.78	40.2	5.40	37.7	5.02	35.2	4.65	32.8	4.29
	14	12	42.6	5.45	40.2	5.08	37.7	4.74	35.2	4.39	32.8	4.06
	19	18	42.6	4.78	40.2	4.48	37.7	4.17	35.2	3.87	32.8	3.58
	23	21	42.6	4.55	40.2	4.26	37.7	3.96	35.2	3.69	32.8	3.42
	27	25	42.6	4.15	40.2	3.87	37.7	3.62	35.2	3.36	32.8	3.12
	32	30	42.6	3.87	40.2	3.63	37.7	3.39	35.2	3.16	32.8	2.94
	37	36	42.6	3.65	40.2	3.42	37.7	3.20	35.2	2.98	32.8	2.78
	44	40	42.6	3.52	40.2	3.30	37.7	3.09	35.2	2.88	32.8	2.67
	47	43	42.6	3.36	40.2	3.16	37.7	2.95	35.2	2.76	32.8	2.57
	51	47	42.6	3.21	40.2	3.01	37.7	2.83	35.2	2.64	32.8	2.46
	54	50	42.6	3.10	40.2	2.93	37.7	2.74	35.2	2.56	32.8	2.39
	57	53	42.6	3.01	40.2	2.83	37.7	2.66	35.2	2.48	32.8	2.31
	60	56	42.6	2.93	40.2	2.74	37.7	2.57	35.2	2.41	32.8	2.25
50	-4	-4.4	35.6	5.72	33.4	5.35	31.4	4.97	29.4	4.60	27.4	4.23
	1	0	35.6	5.15	33.4	4.81	31.4	4.48	29.4	4.15	27.4	3.84
	5	3	35.6	4.96	33.4	4.65	31.4	4.32	29.4	4.02	27.4	3.71
	10	9	35.6	4.67	33.4	4.37	31.4	4.08	29.4	3.79	27.4	3.52
	14	12	35.6	4.42	33.4	4.13	31.4	3.86	29.4	3.59	27.4	3.32
	19	18	35.6	3.90	33.4	3.65	31.4	3.41	29.4	3.19	27.4	2.95
	23	21	35.6	3.71	33.4	3.48	31.4	3.26	29.4	3.04	27.4	2.83
	27	25	35.6	3.38	33.4	3.17	31.4	2.98	29.4	2.78	27.4	2.58
	32	30	35.6	3.17	33.4	2.98	31.4	2.79	29.4	2.62	27.4	2.44
	37	36	35.6	2.99	33.4	2.82	31.4	2.64	29.4	2.47	27.4	2.31
	44	40	35.6	2.89	33.4	2.73	31.4	2.56	29.4	2.40	27.4	2.24
	47	43	35.6	2.77	33.4	2.61	31.4	2.45	29.4	2.29	27.4	2.14
	51	47	35.6	2.66	33.4	2.51	31.4	2.35	29.4	2.20	27.4	2.07
	54	50	35.6	2.57	33.4	2.42	31.4	2.28	29.4	2.14	27.4	1.99
	57	53	35.6	2.50	33.4	2.36	31.4	2.21	29.4	2.08	27.4	1.94
	60	56	35.6	2.42	33.4	2.29	31.4	2.15	29.4	2.02	27.4	1.89

Capacity Correction

Capacity correction by distance

Cooling

Pipe Length (ft)

Level Difference (ft)	25	33	66	98	131	164	197	230	262	295	328	361	394	427	459	492	525	558
164	-	-	-	-	-	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
131	-	-	-	-	0.95	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
98	-	-	-	0.96	0.95	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
66	-	-	0.98	0.96	0.95	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
33	-	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
0	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
-33	-	1.00	0.98	0.96	0.94	0.93	0.91	0.89	0.88	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
-66	-	-	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
-98	-	-	-	0.96	0.94	0.92	0.90	0.88	0.87	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76
-131	-	-	-	-	0.94	0.92	0.90	0.88	0.87	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75

Heating

Pipe Length (ft)

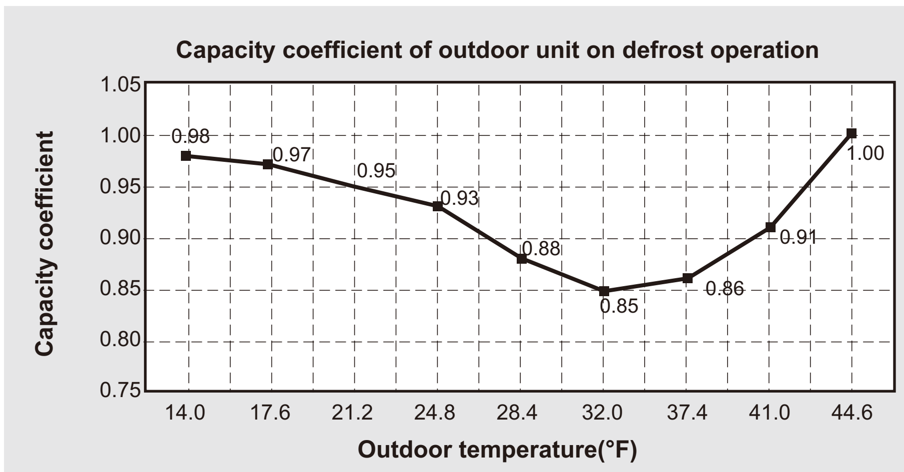
Level Difference (ft)	25	33	66	98	131	164	197	230	262	295	328	361	394	427	459	492	525	558
164	-	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
131	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
98	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
66	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-33	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-66	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-98	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-131	-	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Defrosting correction factor

On heating operation, frost can be formed on heat exchanger according to outdoor temperature. (Frost on heat exchanger results in decreasing the performance.) To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically. During defrost operation, capacity of outdoor unit may decrease. Capacity decreases, if applicable, are not considered in the individual capacity tables.

Outdoor temperature (°F, WB)	14.0	17.6	21.2	24.8	28.4	32.0	37.4	41.0	44.6
Capacity coefficient	0.98	0.97	0.95	0.93	0.88	0.85	0.86	0.91	1.00

Corrected Heating Capacity = Heating Capacity x Capacity coefficient



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